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**IDI Rider 2 and 4 High Cube  
Warehouses and Perris Valley  
Storm Drain Channel  
Improvement Project  
ENERGY ANALYSIS  
CITY OF PERRIS**

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## **LIST OF ABBREVIATED TERMS**

%	Percent
(1)	Reference
AQIA	Air Quality Impact Analysis
BACM	Best Available Control Measures
BTU	British Thermal Units
CalEEMod	California Emissions Estimator Model
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
City	City of Perris
CPEP	Clean Power and Electrification Pathway
CPUC	California Public Utilities Commission
DMV	Department of Motor Vehicles
DU	Dwelling Units
EIA	Energy Information Administration
EIR	Environmental Impact Report
EPA	Environmental Protection Agency
EMFAC	EMissions FACtor
FERC	Federal Energy Regulatory Commission
GHG	Greenhouse Gas
GWh	Gigawatt Hour
HHDT	Heavy-Heavy Duty Trucks
hp-hr-gal	Horsepower Hours Per Gallon
I-215	Interstate 215
IEPR	Integrated Energy Policy Report
IP	Industrial Park
ISO	Independent Service Operator
ISTEA	Intermodal Surface Transportation Efficiency Act
ITE	Institute of Transportation Engineers
kBTU	Kilo-British Thermal Units
kWh	Kilowatt Hour
LDA	Light Duty Auto
LDT1/LDT2	Light-Duty Trucks
LHDT1	Light-Heavy Duty Trucks

LI	Light Industrial
MARB/IPA	March Air Reserve Base/Inland Port Airport
MDV	Medium Duty Trucks
MHDT	Medium-Heavy Duty Trucks
MM	Mitigation Measures
mpg	Miles Per Gallon
MPO	Metropolitan Planning Organization
PG&E	Pacific Gas and Electric
Project	IDI Rider 2 and 4 High Cube Warehouses and Perris Valley Storm Drain Channel Improvement Project
PV	Photovoltaic
PVSD	Perris Valley Storm Drain
PVCC SP	Perris Valley Commerce Center Specific Plan
RCEM	Road Construction Emissions Model
RV	Recreational Vehicle
SCAB	Southern California Air Basin
SCE	Southern California Edison
SDAB	San Diego Air Basin
SoCalGas	Southern California Gas
sf	Square Feet
TEA-21	Transportation Equity Act for the 21 <sup>st</sup> Century
TIA	Traffic Impact Analysis
U.S.	United States
VMT	Vehicle Miles Traveled

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## EXECUTIVE SUMMARY

### ES.1 SUMMARY OF FINDINGS

The results of this *IDI Rider 2 and 4 High Cube Warehouses and Perris Valley Storm Drain Channel Improvement Project Energy Analysis* is summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the 2019 California Environmental Quality Act (CEQA) Statute and Guidelines (*CEQA Guidelines*) (1). Table ES-1 shows the findings of significance for potential energy impacts under CEQA.

**TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS**

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Energy Impact #1: Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation.	5.0	<i>Less Than Significant</i>	<i>n/a</i>
Energy Impact #2: Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.	5.0	<i>Less Than Significant</i>	<i>n/a</i>

### ES.2 PERRIS VALLEY COMMERCE CENTER SPECIFIC PLAN (PVCC SP) ENVIRONMENTAL IMPACT REPORT (EIR) MITIGATION MEASURES (MM)

The Project sites are located within the PVCC SP area. As such, the Project is required to comply with the applicable *Perris Valley Commerce Center Specific Plan Environmental Impact Report SCH No. 2009081086* MMs (2).

The applicable PVCC SP EIR MMs for air quality are shown below and are required for the Project, these select measures would also assist in the reduction of energy usage. As a conservative measure, to provide a worst-case disclosure of the Project's impacts, no credit has been assumed from the following measures.

#### **MM AIR 19**

In order to reduce energy consumption from the individual implementing development projects, applicable plans (e.g., electrical plans, improvement maps) submitted to the City shall include the installation of energy-efficient street lighting throughout the project sites. These plans shall be reviewed and approved by the applicable City Department (e.g., City of Perris' Building Division) prior to conveyance of applicable streets.

**MM AIR 20**

Each implementing development project shall be encouraged to implement, at a minimum, an increase in each building's energy efficiency 15 percent (%) beyond Title 24, and reduce indoor water use by 25%. All reductions would be documented through a checklist to be submitted prior to issuance of building permits for the implementing development project with building plans and calculations.

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# 1 INTRODUCTION

This report presents the results of the energy analysis prepared by Urban Crossroads, Inc., for the proposed IDI Rider 2 and 4 High Cube Warehouses and Perris Valley Storm Drain (PVSD) Channel Improvement Project (Project). The purpose of this report is to ensure that energy implication is considered by the City of Perris (City), as the lead agency, and to quantify anticipated energy usage associated with construction and operation of the proposed Project, determine if the usage amounts are efficient, typical, or wasteful for the land use type, and to emphasize avoiding or reducing inefficient, wasteful, and unnecessary consumption of energy.

## 1.1 SITE LOCATION

The Project sites are located in City of Perris on the northeast corner of Redlands Avenue and Rider Street in the PVCC SP area, as shown on Exhibit 1-A. The March Air Reserve Base/Inland Port Airport (MARB/IPA) is located approximately 2 to 2.5 miles northwest of the Project sites, and the Interstate 215 (I-215) Freeway is located roughly 1.8 miles west of the Project sites.

The Project sites are currently vacant. Existing land uses in the Project study area include an existing recreational vehicle (RV) park use to the north on the southwest corner of Redlands Avenue and Ramona Expressway; Morgan Park and residential homes located northeast, east, and south of the Project sites across the PVSD Channel; and industrial uses located west of the Project sites within areas defined by the PVCC SP and City of Perris Zoning Map as light industrial-designated land use (LI) (3) (4).

## 1.2 PROJECT DESCRIPTION

The Project is proposed to consist of two High-Cube Transload Short-Term Storage Warehouse (without cold storage) buildings totaling approximately 1,373,449 square feet (sf) (Rider 2 is to consist of approximately 806,351 sf and Rider 4 is to consist of approximately 567,098 sf) of High-Cube Transload Short-Term Storage Warehouse (without cold storage) and the development and subsequent operations and maintenance of improvements to the PVSD Channel. At the time this EA was prepared, Rider 2 was proposed to consist of 806,351 sf and Rider 4 was proposed to consist of 567,098 sf of High-Cube Transload and Short-Term Storage Warehouse use (without cold storage). However, the current site plan shows 804,759 sf for Rider 2 and 547,977 sf for Rider 4. The higher square footages for Rider 2 and Rider 4 have been evaluated for the purposes of this EA in order to account for any minor changes that may occur to the building area as part of the final design. Exhibit 1-B shows the Project site plan.

At the time this energy analysis was prepared the future tenants of the proposed Project were unknown. To present the potential worst-case conditions, this analysis assumes the Project would be operated 24 hours per day, seven days per week. It is expected that the Project business operations would primarily be conducted within the enclosed buildings, except for traffic movement, parking, as well as loading and unloading of trucks at designated loading bays. This energy study is intended to describe energy use associated with the expected typical

EXHIBIT 1-A: LOCATION MAP

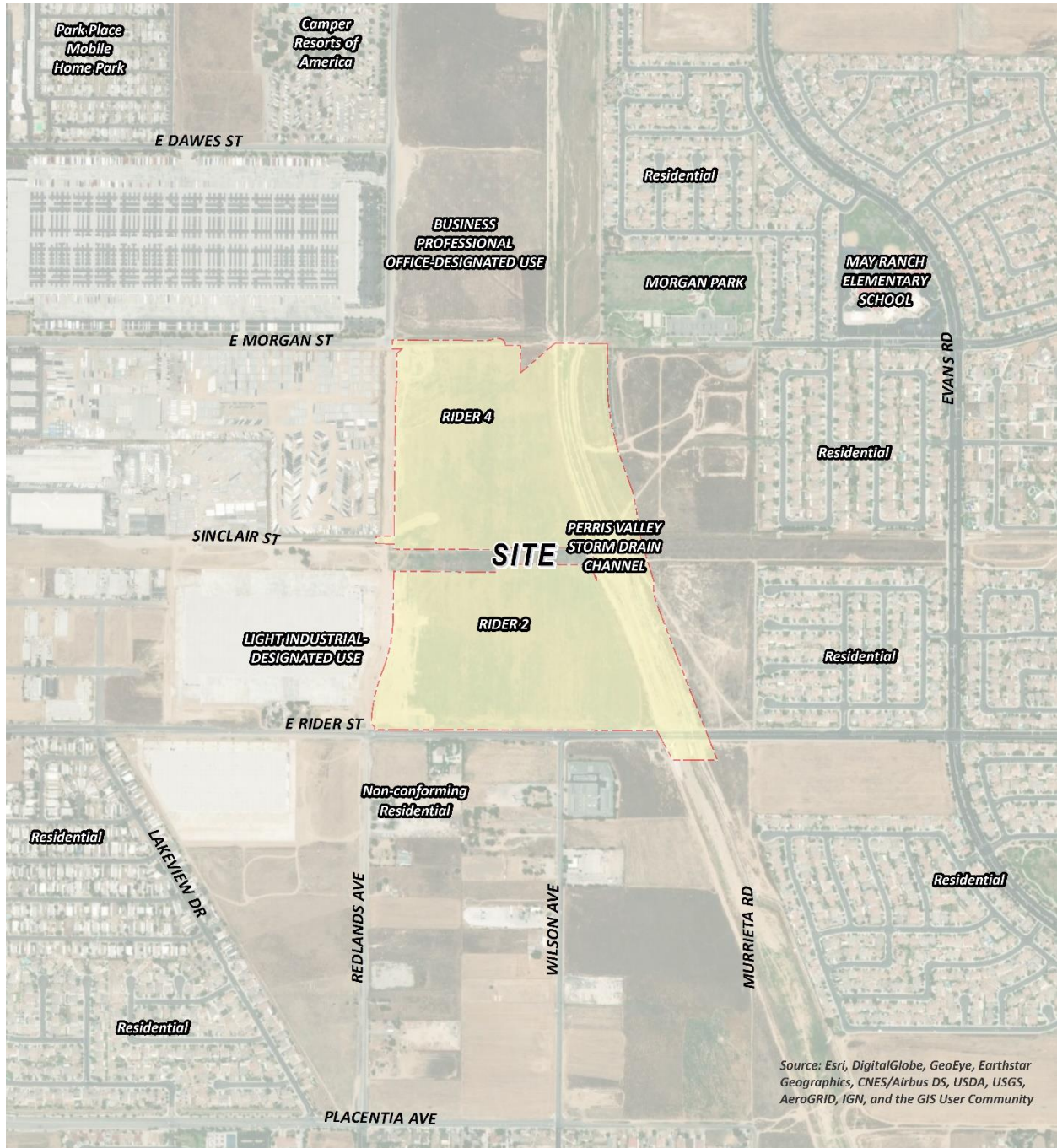
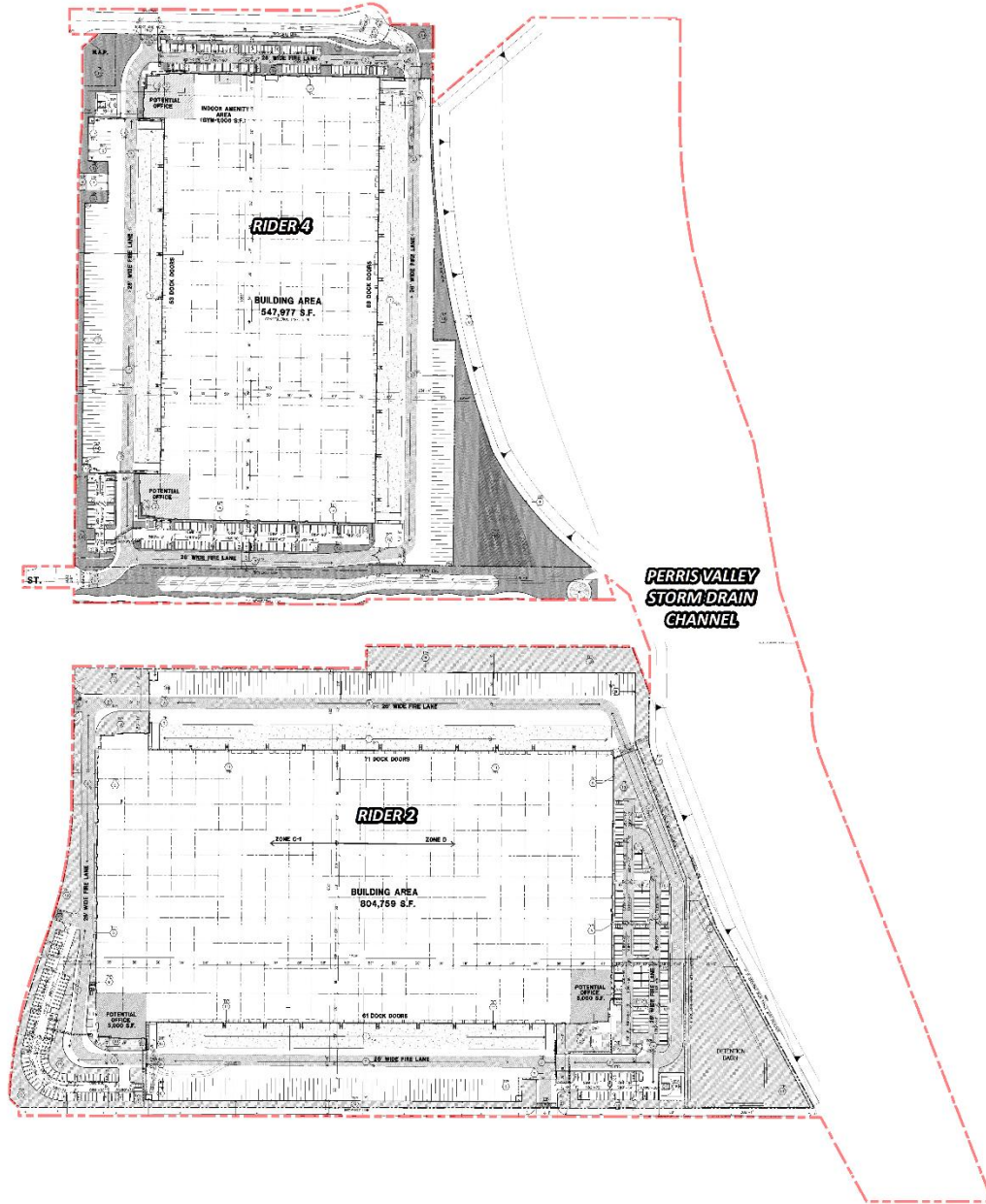


EXHIBIT 1-B: SITE PLAN



industrial warehouse activities at the Project sites. At the time of this analysis, no cold storage was planned at the Project sites, and is therefore not analyzed in this report.

According to the *IDI Rider 2 and 4 High Cube Warehouses and Perris Valley Storm Drain Channel Improvement Project Traffic Impact Analysis* (TIA) prepared by Urban Crossroads, Inc., the Project is expected to generate a total of approximately 1,926 two-way vehicular trips per day (963 inbound and 963 outbound) (5). The Project trip generation includes 1,304 two-way passenger car trips per day (652 inbound and 652 outbound) and 622 two-way truck trips per day (311 inbound and 311 outbound) from the proposed buildings within the Project sites.

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## 2 EXISTING CONDITIONS

This section provides an overview of the existing energy conditions in the Project region.

### 2.1 OVERVIEW

The most recent data for California's estimated total energy consumption is from 2017 and natural gas consumption is from 2018, released by the United States (U.S.) Energy Information Administration's (EIA) California State Profile and Energy Estimates in 2020 and included:

- Approximately 7,881 trillion British Thermal Unit (BTU) of energy was consumed;
- Approximately 683 million barrels of petroleum;
- Approximately 2,137 billion cubic feet of natural gas;
- Approximately 1 million short tons of coal (6)

The California Energy Commission's (CEC) Transportation Energy Demand Forecast 2018-2030 was released in order to support the 2017 Integrated Energy Policy Report. The Transportation energy Demand Forecast 2018-2030 lays out graphs and data supporting their projections of California's future transportation energy demand. The projected inputs consider expected variable changes in fuel prices, income, population, and other variables. Predictions regarding fuel demand included:

- Gasoline demand in the transportation sector is expected to decline from approximately 15.8 billion gallons in 2017 to between 12.3 billion and 12.7 billion gallons in 2030 (7)
- Diesel demand in the transportation sector is expected to rise, increasing from approximately 3.7 billion diesel gallons in 2015 to approximately 4.7 billion in 2030 (7)
  - Data from the Department of Energy states that approximately 3.9 billion gallons of diesel fuel were consumed in 2017 (8)

The most recent data provided by the EIA for energy use in California by demand sector is from 2017 and is reported as follows:

- Approximately 40.3% transportation;
- Approximately 23.1% industrial;
- Approximately 18.0% residential; and
- Approximately 18.7% commercial (9)

In 2018, total system electric generation for California was 285,488 gigawatt hours (GWh). California's massive electricity in-state generation system generated approximately 194,842 GWh which accounted for approximately 68% of the electricity it uses; the rest was imported from the Pacific Northwest (14%) and the U.S. Southwest (18%) (10). Natural gas is the main source for electricity generation at 47% of the total in-state electric generation system power as shown in Table 2-1.

**TABLE 2-1: TOTAL ELECTRICITY SYSTEM POWER (CALIFORNIA 2018)**

Fuel Type	California In-State Generation	Percent of California In-State	Northwest Imports (GWh)	Southwest Imports (GWh)	California Power Mix (GWh)	Percent California Power Mix
Coal	294	0.15%	399	8,740	9,433	3.30%
Large Hydro	22,096	11.34%	7,418	985	30,499	10.68%
Natural Gas	90,691	46.54%	49	8,904	99,644	34.91%
Nuclear	18,268	9.38%	0	7,573	25,841	9.05%
Oil	35	0.02%	0	0	35	0.01%
Other	430	0.22%	0	9	439	0.15%
Renewables	63,028	32.35%	14,074	12,400	89,502	31.36%
Biomass	5,909	3.03%	772	26	6,707	2.35%
Geothermal	11,528	5.92%	171	1,269	12,968	4.54%
Small Hydro	4,248	2.18%	334	1	4,583	1.61%
Solar	27,265	13.99%	174	5,094	32,533	11.40%
Wind	14,078	7.23%	12,623	6,010	32,711	11.46%
Unspecified Sources of Power	N/A	N/A	17,576	12,519	30,095	10.54%
<b>Total</b>	<b>194,842</b>	<b>100%</b>	<b>39,517</b>	<b>51,130</b>	<b>285,488</b>	<b>100%</b>

Source: [https://www.energy.ca.gov/almanac/electricity\\_data/total\\_system\\_power.html](https://www.energy.ca.gov/almanac/electricity_data/total_system_power.html)

An updated summary of, and context for energy consumption and energy demands within the State is presented in “U.S. Energy Information Administration, California State Profile and Energy Estimates, Quick Facts” excerpted below:

- California was the seventh-largest producer of crude oil among the 50 states in 2018, and, as of January 2019, it ranked third in oil refining capacity.
- California is the largest consumer of jet fuel among the 50 states and accounted for one-fifth of the nation’s jet fuel consumption in 2018. (11)
- California's total energy consumption is second highest in the nation, but, in 2018, the state's per capita energy consumption was the fourth-lowest, due in part to its mild climate and its energy efficiency programs. (12)
- In 2018, California ranked first in the nation as a producer of electricity from solar, geothermal, and biomass resources and fourth in the nation in conventional hydroelectric power generation.
- In 2018, large- and small-scale solar photovoltaic (PV) and solar thermal installations provided 19% of California’s net electricity generation (13).

As indicated above, California is one of the nation's leading energy-producing states, and California's per capita energy use is among the nation's most efficient. Given the nature of the Project, the remainder of this discussion will focus on the three sources of energy that are most relevant to the project—namely, electricity, natural gas, and transportation fuel for vehicle trips associated with the uses planned for the Project.

## 2.2 ELECTRICITY

The usage associated with electricity use were calculated using the California Emissions Estimator Model (CalEEMod) Version 2016.3.2. The Southern California region's electricity reliability has been of concern for the past several years due to the planned retirement of aging facilities that depend upon once-through cooling technologies, as well as the June 2013 retirement of the San Onofre Nuclear Generating Station (San Onofre). While the once-through cooling phase-out has been ongoing since the May 2010 adoption of the State Water Resources Control Board's once-through cooling policy, the retirement of San Onofre complicated the situation. California ISO studies revealed the extent to which the South California Air Basin (SCAB) and the San Diego Air Basin (SDAB) region were vulnerable to low-voltage and post-transient voltage instability concerns. A preliminary plan to address these issues was detailed in the 2013 Integrative Energy Policy Report (IEPR) after a collaborative process with other energy agencies, utilities, and air districts (14). Similarly, the subsequent 2018 and 2019 IEPR's identify broad strategies that are aimed at maintaining electricity system reliability.

Electricity is provided to the Project by Southern California Edison (SCE). SCE provides electric power to more than 15 million persons in 15 counties and in 180 incorporated cities, within a service area encompassing approximately 50,000 square miles. Based on SCE's 2018 Power Content Label Mix, SCE derives electricity from varied energy resources including: fossil fuels, hydroelectric generators, nuclear power plants, geothermal power plants, solar power generation, and wind farms. SCE also purchases from independent power producers and utilities, including out-of-state suppliers (16).

California's electricity industry is an organization of traditional utilities, private generating companies, and state agencies, each with a variety of roles and responsibilities to ensure that electrical power is provided to consumers. The California Independent Service Operator (ISO) is a nonprofit public benefit corporation and is the impartial operator of the State's wholesale power grid and is charged with maintaining grid reliability, and to direct uninterrupted electrical energy supplies to California's homes and communities. While utilities [such as SCE] still own transmission assets, the ISO routes electrical power along these assets, maximizing the use of the transmission system and its power generation resources. The ISO matches buyers and sellers of electricity to ensure that enough power is available to meet demand. To these ends, every five minutes the ISO forecasts electrical demands, accounts for operating reserves, and assigns the lowest cost power plant unit to meet demands while ensuring adequate system transmission capacities and capabilities (17).

Part of the ISO's charge is to plan and coordinate grid enhancements to ensure that electrical power is provided to California consumers. To this end, transmission owners (investor-owned utilities such as SCE) file annual transmission expansion/modification plans to accommodate the

State’s growing electrical needs. The ISO reviews and either approves or denies the proposed additions. In addition, and perhaps most importantly, the ISO works with other areas in the western United States electrical grid to ensure that adequate power supplies are available to the State. In this manner, continuing reliable and affordable electrical power is assured to existing and new consumers throughout the State.

Table 2-2 identifies SCE’s specific proportional shares of electricity sources in 2018. As indicated in Table 2-2, the 2018 SCE Power Mix has renewable energy at 36% of the overall energy resources. Geothermal resources are at 8%, wind power is at 13%, large hydroelectric sources are at 1%, solar energy is at 13%, and coal is at 0%. Biomass and waste sources have increased by 1% since 2017. Natural gas remains at 17% since 2017 (18).

**TABLE 2-2: SCE 2018 POWER CONTENT MIX**

Energy Resources	2018 SCE Power Mix
<b>Eligible Renewable</b>	<b>36%</b>
Biomass & waste	1%
Geothermal	8%
Small Hydroelectric	1%
Solar	13%
Wind	13%
<b>Coal</b>	<b>0%</b>
<b>Large Hydroelectric</b>	<b>4%</b>
<b>Natural Gas</b>	<b>17%</b>
<b>Nuclear</b>	<b>6%</b>
<b>Other</b>	<b>0%</b>
Unspecified Sources of power*	37%
<b>Total</b>	<b>100%</b>

\* "Unspecified sources of power" means electricity from transactions that are not traceable to specific generation sources

### 2.3 NATURAL GAS

The usage associated with natural gas use were calculated using the CalEEMod Version 2016.3.2. The following summary of natural gas customers & volumes, supplies, delivery of supplies, storage, service options, and operations is excerpted from information provided by the California Public Utilities Commission (CPUC).

*“The CPUC regulates natural gas utility service for approximately 10.8 million customers that receive natural gas from Pacific Gas and Electric (PG&E), Southern California Gas (SoCalGas), San Diego Gas & Electric (SDG&E), Southwest Gas, and several smaller natural*

gas utilities. The CPUC also regulates independent storage operators: Lodi Gas Storage, Wild Goose Storage, Central Valley Storage and Gill Ranch Storage.

California's natural gas utilities provide service to over 11 million gas meters. SoCalGas and PG&E provide service to about 5.9 million and 4.3 million customers, respectively, while SDG&E provides service to over 800,000 customers. In 2018, California gas utilities forecasted that they would deliver about 4740 million cubic feet per day (MMcfd) of gas to their customers, on average, under normal weather conditions.

The overwhelming majority of natural gas utility customers in California are residential and small commercial customers, referred to as "core" customers. Larger volume gas customers, like electric generators and industrial customers, are called "noncore" customers. Although very small in number relative to core customers, noncore customers consume about 65% of the natural gas delivered by the state's natural gas utilities, while core customers consume about 35%.

A significant amount of gas (about 19%, or 1131 MMcfd, of the total forecasted California consumption in 2018) is also directly delivered to some California large volume consumers, without being transported over the regulated utility pipeline system. Those customers, referred to as "bypass" customers, take service directly from interstate pipelines or directly from California producers.

SDG&E and Southwest Gas' southern division are wholesale customers of SoCalGas, i.e. they receive deliveries of gas from SoCalGas and in turn deliver that gas to their own customers. (Southwest Gas also provides natural gas distribution service in the Lake Tahoe area.) Similarly, West Coast Gas, a small gas utility, is a wholesale customer of PG&E. Some other wholesale customers are municipalities like the cities of Palo Alto, Long Beach, and Vernon, which are not regulated by the CPUC.

Natural gas from out-of-state production basins is delivered into California via the interstate natural gas pipeline system. The major interstate pipelines that deliver out-of-state natural gas to California gas utilities are Gas Transmission Northwest Pipeline, Kern River Pipeline, Transwestern Pipeline, El Paso Pipeline, Ruby Pipeline, Mojave Pipeline, and Tuscarora. Another pipeline, the North Baja - Baja Norte Pipeline takes gas off the El Paso Pipeline at the California/Arizona border, and delivers that gas through California into Mexico. While the Federal Energy Regulatory Commission (FERC) regulates the transportation of natural gas on the interstate pipelines, and authorizes rates for that service, the California Public Utilities Commission may participate in FERC regulatory proceedings to represent the interests of California natural gas consumers.

The gas transported to California gas utilities via the interstate pipelines, as well as some of the California-produced gas, is delivered into the PG&E and SoCalGas intrastate natural gas transmission pipeline systems (commonly referred to as California's "backbone" pipeline system). Natural gas on the utilities' backbone pipeline systems is then delivered to the local transmission and distribution pipeline systems, or to natural gas storage fields. Some large volume noncore customers take natural gas delivery directly off the

*high-pressure backbone and local transmission pipeline systems, while core customers and other noncore customers take delivery off the utilities' distribution pipeline systems. The state's natural gas utilities operate over 100,000 miles of transmission and distribution pipelines, and thousands more miles of service lines.*

*Bypass customers take most of their deliveries directly off the Kern/Mojave pipeline system, but they also take a significant amount of gas from California production*

*PG&E and SoCalGas own and operate several natural gas storage fields that are located within their service territories in northern and southern California, respectively. These storage fields, and four independently owned storage utilities - Lodi Gas Storage, Wild Goose Storage, Central Valley Storage, and Gill Ranch Storage - help meet peak seasonal and daily natural gas demand and allow California natural gas customers to secure natural gas supplies more efficiently. PG&E is a 25% owner of the Gill Ranch Storage field. These storage fields provide a significant amount of infrastructure capacity to help meet California's natural gas requirements, and without these storage fields, California would need much more pipeline capacity in order to meet peak gas requirements .*

*Prior to the late 1980s, California regulated utilities provided virtually all natural gas services to all their customers. Since then, the Commission has gradually restructured the California gas industry in order to give customers more options while assuring regulatory protections for those customers that wish to, or are required to, continue receiving utility-provided services.*

*The option to purchase natural gas from independent suppliers is one of the results of this restructuring process. Although the regulated utilities procure natural gas supplies for most core customers, core customers have the option to purchase natural gas from independent natural gas marketers, called "core transport agents" (CTA). Contact information for core transport agents can be found on the utilities' web sites. Noncore customers, on the other hand, make natural gas supply arrangements directly with producers or with marketers.*

*Another option resulting from the restructuring process occurred in 1993, when the Commission removed the utilities' storage service responsibility for noncore customers, along with the cost of this service from noncore customers' transportation rates. The Commission also encouraged the development of independent storage fields, and in subsequent years, all the independent storage fields in California were established. Noncore customers and marketers may now take storage service from the utility or from an independent storage provider (if available), and pay for that service, or may opt to take no storage service at all. For core customers, the Commission assures that the utility has adequate storage capacity set aside to meet core requirements, and core customers pay for that service.*

*In a 1997 decision, the Commission adopted PG&E's "Gas Accord", which unbundled PG&E's backbone transmission costs from noncore transportation rates. This decision gave customers and marketers the opportunity to obtain pipeline capacity rights on*

*PG&E's backbone transmission pipeline system, if desired, and pay for that service at rates authorized by the Commission. The Gas Accord also required PG&E to set aside a certain amount of backbone transmission capacity in order to deliver gas to its core customers. Subsequent Commission decisions modified and extended the initial terms of the Gas Accord. The "Gas Accord" framework is still in place today for PG&E's backbone and storage rates and services and is now simply referred to as PG&E Gas Transmission and Storage (GT&S).*

*In a 2006 decision, the Commission adopted a similar gas transmission framework for Southern California, called the "firm access rights" system. SoCalGas and SDG&E implemented the firm access rights (FAR) system in 2008, and it is now referred to as the backbone transmission system (BTS) framework. As under the PG&E backbone transmission system, SoCalGas backbone transmission costs are unbundled from noncore transportation rates. Noncore customers and marketers may obtain, and pay for, firm backbone transmission capacity at various receipt points on the SoCalGas system. A certain amount of backbone transmission capacity is obtained for core customers to assure meeting their requirements.*

*Many if not most noncore customers now use a marketer to provide for several of the services formerly provided by the utility. That is, a noncore customer may simply arrange for a marketer to procure its supplies, and obtain any needed storage and backbone transmission capacity, in order to assure that it will receive its needed deliveries of natural gas supplies. Core customers still mainly rely on the utilities for procurement service, but they have the option to take procurement service from a CTA. Backbone transmission and storage capacity is either set aside or obtained for core customers in amounts to assure very high levels of service.*

*In order properly operate their natural gas transmission pipeline and storage systems, PG&E and SoCalGas must balance the amount of gas received into the pipeline system and delivered to customers or to storage fields. Some of these utilities' storage capacity is dedicated to this service, and under most circumstances, customers do not need to precisely match their deliveries with their consumption. However, when too much or too little gas is expected to be delivered into the utilities' systems, relative to the amount being consumed, the utilities require customers to more precisely match up their deliveries with their consumption. And, if customers do not meet certain delivery requirements, they could face financial penalties. The utilities do not profit from these financial penalties - the amounts are then returned to customers as a whole. If the utilities find that they are unable to deliver all the gas that is expected to be consumed, they may even call for a curtailment of some gas deliveries. These curtailments are typically required for just the largest, noncore customers. It has been many years since there has been a significant curtailment of core customers in California ." (19)*

As indicated in the preceding discussions, natural gas is available from a variety of in-state and out-of-state sources and is provided throughout the state in response to market supply and demand. Complementing available natural gas resources, biogas may soon be available via existing delivery systems, thereby increasing the availability and reliability of resources in total.

The CPUC oversees utility purchases and transmission of natural gas to ensure reliable and affordable natural gas deliveries to existing and new consumers throughout the State.

## **2.4 TRANSPORTATION ENERGY RESOURCES**

The Project would generate additional vehicle trips with resulting consumption of energy resources, predominantly gasoline and diesel fuel. In March 2019, the Department of Motor Vehicles (DMV) identified 36.4 million registered vehicles in California (20), and those vehicles consume an estimated 17.8 billion gallons of fuel each year<sup>1</sup>. Gasoline (and other vehicle fuels) are commercially provided commodities and would be available to the Project patrons and employees via commercial outlets.

California's on-road transportation system includes 394,383 land miles, more than 27.5 million passenger vehicles and light trucks, and almost 8.1 million medium- and heavy-duty vehicles (20). While gasoline consumption has been declining since 2008 it is still by far the dominant fuel. Petroleum comprises about 91% of all transportation energy use, excluding fuel consumed for aviation and most marine vessels (21). Nearly 17.8 billion gallons of on-highway fuel are burned each year, including 14.6 billion gallons of gasoline (including ethanol) and 3.2 billion gallons of diesel fuel (including biodiesel and renewable diesel). In 2019, Californians also used 194 million cubic feet of natural gas as a transportation fuel (22), or the equivalent of 183 billion gallons of gasoline.

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<sup>1</sup> Fuel consumptions estimated utilizing information from EMFAC2017.



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### 3 REGULATORY BACKGROUND

Federal and state agencies regulate energy use and consumption through various means and programs. On the federal level, the United States Department of Transportation, the United States Department of Energy, and the United States Environmental Protection Agency (EPA) are three federal agencies with substantial influence over energy policies and programs. On the state level, the CPUC and the CEC are two agencies with authority over different aspects of energy. Relevant federal and state energy-related laws and plans are summarized below. Project consistency with applicable federal and state regulations is also presented in *italicized* text.

#### 3.1 FEDERAL REGULATIONS

##### 3.1.1 INTERMODAL SURFACE TRANSPORTATION EFFICIENCY ACT OF 1991 (ISTEA)

The ISTEA promoted the development of inter-modal transportation systems to maximize mobility as well as address national and local interests in air quality and energy. ISTEA contained factors that Metropolitan Planning Organizations (MPOs) were to address in developing transportation plans and programs, including some energy-related factors. To meet the new ISTEA requirements, MPOs adopted explicit policies defining the social, economic, energy, and environmental values guiding transportation decisions.

*Transportation and access to the Project sites are provided by the local and regional roadway systems. The Project would not interfere with, nor otherwise obstruct intermodal transportation plans or projects that may be realized pursuant to the ISTEA because SCAG is not planning for intermodal facilities on or through the Project sites.*

##### 3.1.2 THE TRANSPORTATION EQUITY ACT FOR THE 21<sup>ST</sup> CENTURY (TEA-21)

The TEA-21 was signed into law in 1998 and builds upon the initiatives established in the ISTEA legislation, discussed above. TEA-21 authorizes highway, highway safety, transit, and other efficient surface transportation programs. TEA-21 continues the program structure established for highways and transit under ISTEA, such as flexibility in the use of funds, emphasis on measures to improve the environment, and focus on a strong planning process as the foundation of good transportation decisions. TEA-21 also provides for investment in research and its application to maximize the performance of the transportation system through, for example, deployment of Intelligent Transportation Systems, to help improve operations and management of transportation systems and vehicle safety.

*The Project sites are located along major transportation corridors with proximate access to the Interstate freeway system. The sites selected for the Project facilitates access, acts to reduce vehicle miles traveled (VMT), takes advantage of existing infrastructure systems, and promotes land use compatibilities through collocation of similar uses. The Project supports the strong planning processes emphasized under TEA-21. The Project is therefore consistent with, and would not otherwise interfere with, nor obstruct implementation of TEA-21.*

## **3.2 CALIFORNIA REGULATIONS**

### **3.2.1 INTEGRATED ENERGY POLICY REPORT (IEPR)**

Senate Bill 1389 (Bowen, Chapter 568, Statutes of 2002) requires the CEC to prepare a biennial integrated energy policy report that assesses major energy trends and issues facing the state's electricity, natural gas, and transportation fuel sectors and provides policy recommendations to conserve resources; protect the environment; ensure reliable, secure, and diverse energy supplies; enhance the state's economy; and protect public health and safety (Public Resources Code § 25301a). The Energy Commission prepares these assessments and associated policy recommendations every two years, with updates in alternate years, as part of the Integrated Energy Policy Report.

The 2019 IEPR was adopted January 31, 2020, and continues to work towards improving electricity, natural gas, and transportation fuel energy use in California. The 2019 IEPR focuses on a variety of topics such as including the environmental performance of the electricity generation system, landscape-scale planning, the response to the gas leak at the Aliso Canyon natural gas storage facility, transportation fuel supply reliability issues, updates on Southern California electricity reliability, methane leakage, climate adaptation activities for the energy sector, climate and sea level rise scenarios, and the California Energy Demand Forecast (24). The 2020 IEPR Update is currently in progress but is not anticipated to be adopted until February 2021.

*Electricity would be provided to the Project by SCE. SCE's Clean Power and Electrification Pathway (CPEP) white paper builds on existing state programs and policies. As such, the Project is consistent with, and would not otherwise interfere with, nor obstruct implementation the goals presented in the 2019 IEPR. It should also be noted that based on information provided by the Project Applicant, the Project would not require natural gas for operations and no natural gas infrastructure would be installed as part of the Project. As such, emissions associated with natural gas use were excluded from the analysis and no impacts to natural gas usage would occur.*

### **3.2.2 STATE OF CALIFORNIA ENERGY PLAN**

The CEC is responsible for preparing the State Energy Plan, which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and the maintenance of a healthy economy. The Plan calls for the state to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies several strategies, including assistance to public agencies and fleet operators and encouragement of urban designs that reduce vehicle miles traveled (VMT) and accommodate pedestrian and bicycle access.

*The Project sites are located along major transportation corridors with proximate access to the Interstate freeway system. The sites selected for the Project facilitates access, acts to reduce VMT by developing industrial uses on a light industrial park-designated site. The Project therefore is*

*consistent with, and would not otherwise interfere with, nor obstruct implementation of the State of California Energy Plan.*

### **3.2.3 CALIFORNIA CODE TITLE 24, PART 6, ENERGY EFFICIENCY STANDARDS**

California Code of Regulations (CCR) Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings, was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas (GHG) emissions. The 2019 version of Title 24 was adopted by the CEC and will become effective on January 1, 2020. The 2019 Title 24 standards go into effect on January 1, 2020 and are applicable to building permit applications submitted on or after that date. The 2019 Title 24 standards require solar PV systems for new homes, establish requirements for newly constructed healthcare facilities, encourage demand responsive technologies for residential buildings, update indoor and outdoor lighting for nonresidential buildings. The CEC anticipates that single-family homes built with the 2019 standards will use approximately 7% less energy compared to the residential homes built under the 2016 standards. Additionally, after implementation of solar PV systems, homes built under the 2019 standards will about 53% less energy than homes built under the 2016 standards. Nonresidential buildings will use approximately 30% less energy due to lighting upgrades compared to the prior code (26).

*The 2019 version of Title 24 was adopted by the California Energy Commission (CEC) and became effective on January 1, 2020. It should be noted that the analysis herein assumes compliance with the 2019 Title 24 Standards.*

### **3.2.4 AB 1493 PAVLEY REGULATIONS AND FUEL EFFICIENCY STANDARDS.**

California AB 1493, enacted on July 22, 2002, required ARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Under this legislation, CARB adopted regulations to reduce GHG emissions from non-commercial passenger vehicles (cars and light-duty trucks). Although aimed at reducing GHG emissions, specifically, a co-benefit of the Pavley standards is an improvement in fuel efficiency and consequently a reduction in fuel consumption.

*AB 1493 is not applicable to the Project as it is a statewide measure establishing vehicle emissions standards. No feature of the Project would interfere with implementation of the requirements under AB 1493.*

### **3.2.5 CALIFORNIA'S RENEWABLE PORTFOLIO STANDARD (RPS).**

First established in 2002 under Senate Bill (SB) 1078, California's Renewable Portfolio Standards (RPS) requires retail sellers of electric services to increase procurement from eligible renewable resources to 33 percent (%) of total retail sales by 2020 (27).

*California's Renewable Portfolio Standard is not applicable to the Project as it is a statewide measure that establishes a renewable energy mix. No feature of the Project would interfere with implementation of the requirements under RPS.*

### **3.2.6 SB 350— CLEAN ENERGY AND POLLUTION REDUCTION ACT OF 2015.**

In October 2015, the legislature approved, and the Governor signed SB 350, which reaffirms California's commitment to reducing its GHG emissions and addressing climate change. Key provisions include an increase in the renewables portfolio standard (RPS), higher energy efficiency requirements for buildings, initial strategies towards a regional electricity grid, and improved infrastructure for electric vehicle charging stations. Provisions for a 50% reduction in the use of petroleum statewide were removed from the Bill because of opposition and concern that it would prevent the Bill's passage. Specifically, SB 350 requires the following to reduce statewide GHG emissions:

- Increase the amount of electricity procured from renewable energy sources from 33% to 50% by 2030, with interim targets of 40% by 2024, and 25% by 2027.
- Double the energy efficiency in existing buildings by 2030. This target will be achieved through the California Public Utility Commission (CPUC), the California Energy Commission (CEC), and local publicly owned utilities.
- Reorganize the Independent System Operator (ISO) to develop more regional electrify transmission markets and to improve accessibility in these markets, which will facilitate the growth of renewable energy markets in the western United States (California Leginfo 2015).

*This measure is not directly applicable to development projects, but the proposed Project would use energy from Southern California Edison, which has committed to diversify its portfolio of energy sources by increasing energy from wind and solar sources.*

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## 4 PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES

### 4.1 EVALUATION CRITERIA

In compliance with Appendix G of the *State CEQA Guidelines* (1), this report analyzes the project's anticipated energy use to determine if the Project would:

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

In addition, Appendix F of the *State CEQA Guidelines* (28), states that the means of achieving the goal of energy conservation includes the following:

- 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.

### 4.2 METHODOLOGY

Information from the California Emissions Estimator Model™ (CalEEMod) 2016.3.2 for the *IDI Rider 2 and 4 High Cube Warehouses and Perris Valley Storm Drain Channel Improvement Project Air Quality Impact Analysis* (Urban Crossroads, Inc.) (AQIA) (29) was utilized in this analysis, detailing Project related construction equipment, transportation energy demands, and facility energy demands.

#### 4.2.1 CALIFORNIA EMISSIONS ESTIMATOR MODEL (CALEEMOD)

On October 17, 2017, the SCAQMD, in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the CalEEMod Version 2016.3.2. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>) and GHG emissions from direct and indirect sources as well as energy usage. (30). Accordingly, the latest version of CalEEMod has been used to determine the proposed Project's anticipated transportation and facility energy demands. Output from the annual construction model runs are provided in Appendices 4.1 through 4.3 and Appendix 4.4 for annual operational emissions.

#### 4.2.2 EMISSION FACTORS MODEL

On August 19, 2019, the EPA approved the 2017 version of the EMISSIONS FACTOR model (EMFAC) web database for use in State Implementation Plan and transportation conformity analyses. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (31). This energy study utilizes the different fuel types for each vehicle class from the annual EMFAC2017 emission inventory in order to derive the average vehicle fuel

economy which is then used to determine the estimated annual fuel consumption associated with vehicle usage during Project construction and operational activities. For purposes of analysis, the 2020 through 2021 analysis years were utilized to determine the average vehicle fuel economy used throughout the duration of the Project.

**4.2.4 LAND USES MODELED IN CALFEEMOD**

The PVSD Channel Improvement area is approximately 29.7 acres and proposes improvements to the PVSD Channel from an area approximately 100 feet north of Morgan Street to an area approximately 120 feet south of Rider Street. The Rider 2 and 4 Warehouse Project is located on 38.33 acres for Rider 2 and 26.45 acres for Rider 4 with a proposed development of up to 1,373,449 sf of High-Cube Transload Short-Term Storage Warehouse (without cold storage) use.

CalFEEMod land uses that most closely fit the described Project are reflected in these analyses. For purposes of analysis, the following construction and operation scenarios and land uses were modeled.

**TABLE 4-1: PROJECT PROPOSED LAND USES**

Land Use	Quantity	Units
PVSD Channel Improvements		
Channel	29.7	acres
Rider 2 and 4 Warehouse		
High-Cube Transload Short-Term Storage Warehouse (without Cold Storage)	1,373.449	1,000 sf

**4.2.5 CONSTRUCTION ACTIVITIES**

Construction activities associated with the Project will result in emissions of VOCs, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>. Construction related emissions are expected from the following construction activities:

**PVSD CHANNEL IMPROVEMENTS**

- PVSD Channel Excavation
- PVSD Channel Construction
  - Detouring Traffic/Street Closure
  - Grubbing/Land Clearing
  - Grading/Excavation/Removing Existing Bridge
  - Bridge Construction
  - Drainage/Utilities/Sub-Grade
  - Paving



**RIDER 2 AND 4 WAREHOUSE CONSTRUCTION**

- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

**4.2.6 CONSTRUCTION DURATION**

The construction schedule utilized in the analysis, shown in Table 4-2 and 4-3, represents a “worst-case” analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent.<sup>2</sup> The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines*. The duration of construction activity was based on information provided by the Project Applicant and the opening year.

**TABLE 4-2: CONSTRUCTION DURATION – ONE STAGE BRIDGE CONSTRUCTION**

Phase Name	Start Date	End Date	Days
PVSD Channel Improvements – PVSD Channel Excavation			
Excavation/Grading	10/05/2020	11/30/2020	41
PVSD Channel Improvements – Channel Construction			
Detouring Traffic/Street Closure	12/01/2020	12/07/2020	5
Grubbing/Land Clearing	12/08/2020	12/19/2020	9
Grading/Excavation/ Removing Existing Bridge	12/20/2020	02/14/2021	40
Bridge Construction	02/15/2021	11/05/2021	190
Drainage/Utilities/Sub-Grade	07/30/2021	09/16/2021	35
Paving	08/26/2021	09/16/2021	16
Rider 2 and 4 Warehouse Construction			
Site Preparation	12/01/2020	12/28/2020	20
Grading	12/29/2020	02/22/2021	40
Building Construction	02/23/2021	09/27/2021	155
Paving	09/28/2021	12/27/2021	65
Architectural Coating	11/02/2021	12/27/2021	40

<sup>2</sup> As shown in the CalEEMod User’s Guide Version 2016.3.2, Section 4.3 “OFFROAD Equipment” as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

**TABLE 4-3: CONSTRUCTION DURATION – TWO STAGE BRIDGE CONSTRUCTION**

Phase Name	Start Date	End Date	Days
PVSD Channel Improvements – PVSD Channel Excavation			
Excavation/Grading	10/05/2020	11/30/2020	41
PVSD Channel Improvements – Channel Construction			
Implementing Traffic Controls	12/01/2020	12/07/2020	5
Grubbing/Land Clearing	12/08/2020	12/21/2020	10
Stage 1: Grading/Excavation/Removing Existing Bridge	12/22/2020	2/01/2021	30
Stage 1: Bridge Construction	02/15/2021	07/15/2021	109
Implementing Traffic Controls (Shifting Traffic)	07/16/2021	07/21/2021	4
Stage 2: Grading/Excavation/Removing Existing Bridge	07/22/2021	09/01/2021	30
Stage 2: Bridge Construction	09/02/2021	03/12/2022	137
Drainage/Utilities/Sub-Grade	03/13/2022	04/12/2022	22
Paving	04/12/2022	05/02/2022	15
Rider 2 and 4 Warehouse Construction			
Site Preparation	12/01/2020	12/28/2020	20
Grading	12/29/2020	02/22/2021	40
Building Construction	02/23/2021	09/27/2021	155
Paving	09/28/2021	12/27/2021	65
Architectural Coating	11/02/2021	12/27/2021	40

**3.4.6 CONSTRUCTION EQUIPMENT**

Site specific construction fleet may vary due to specific project needs at the time of construction. The associated construction equipment was based on CalEEMod defaults and information provided by the Project Applicant . A detailed summary of construction equipment assumptions by phase is provided at Tables 4-4 and 4-5. Please refer to specific detailed modeling inputs/outputs contained in Appendices 4.1 through 4.3 of this energy study.

**TABLE 4-4: ONE STAGE BRIDGE CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 2)**

Activity	Equipment	Amount	Hours Per Day
PVSD Channel Improvements – Channel Excavation			
Excavation	Scrapers	5	8
PVSD Channel Improvements – Channel Construction			
Detouring Traffic/Street Closure	Signal Boards	2	8
Grubbing/Land Clearing	Crawler Tractors	1	8
	Excavators	1	8
	Hauling Trucks	1	8
Grading/Excavation/ Removing Existing Bridge	Crawler Tractors	2	8
	Excavators	2	8
	Demolition Equipment	1	8
	Hauling Trucks	2	8
PVSD Channel Improvements – Channel Construction			
Bridge Construction	Drill Rig	1	8
	Cranes	1	8
	Excavators	1	8
	Compactors	1	8
	Concrete Paving Machine	1	8
Drainage/Utilities/ Sub-Grade	Crawler Tractors	2	8
	Scrapers	2	8
Paving	Pavers	1	8
	Paving Equipment	1	8
	Rollers	1	8
	Signal Boards	1	8
	Tractors/Loaders/Backhoes	2	8
Rider 2 and 4 Warehouse Construction			
Site Preparation	Crawler Tractors	4	8
	Rubber Tired Dozers	3	8
Grading	Crawler Tractors	2	8
	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8

**TABLE 4-4: ONE STAGE BRIDGE CONSTRUCTION EQUIPMENT ASSUMPTIONS (2 OF 2)**

Activity	Equipment	Amount	Hours Per Day
Rider 2 and 4 Warehouse Construction			
Building Construction	Cranes	1	8
	Crawler Tractors	3	8
	Forklifts	3	8
	Generator Sets	1	8
	Welders	1	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

Source: In order to account for fugitive dust emissions associated with Site Preparation and Grading activities, Crawler Tractors were used in lieu of Tractors/Loaders/Backhoes.

**TABLE 4-5: TWO STAGE BRIDGE CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 2)**

Activity	Equipment	Amount	Hours Per Day
PVSD Channel Improvements –Channel Excavation			
Excavation	Scrapers	5	8
PVSD Channel Improvements – Channel Construction			
Implementing Traffic Controls	Signal Boards	2	8
Grubbing/Land Clearing	Crawler Tractors	1	8
	Excavators	1	8
	Hauling Trucks	1	8
Stage 1: Grading/Excavation/ Removing Existing Bridge	Crawler Tractors	1	8
	Excavators	2	8
	Demolition Equipment	1	8
	Hauling Trucks	2	8
Stage 1: Bridge Construction	Drill Rig	1	8
	Cranes	1	8
	Excavators	1	8
	Compactors	1	8
	Concrete Paving Machine	1	8
Implementing Traffic Controls (Shifting Traffic)	Signal Boards	2	8

**TABLE 4-5: TWO STAGE BRIDGE CONSTRUCTION EQUIPMENT ASSUMPTIONS (2 OF 2)**

Activity	Equipment	Amount	Hours Per Day
PVSD Channel Improvements – Channel Construction			
Stage 2: Grading/Excavation/ Removing Existing Bridge	Crawler Tractors	1	8
	Excavators	2	8
	Demolition Equipment	1	8
	Hauling Trucks	2	8
Stage 2: Bridge Construction	Drill Rig	1	8
	Cranes	1	8
	Excavators	1	8
	Compactors	1	8
	Concrete Paving Machine	1	8
Drainage/Utilities/ Sub-Grade	Crawler Tractors	2	8
	Scrapers	2	8
Paving	Pavers	1	8
	Paving Equipment	1	8
	Rollers	1	8
	Signal Boards	1	8
	Tractors/Loaders/Backhoes	2	8
Rider 2 and 4 Warehouse Construction			
Site Preparation	Crawler Tractors	4	8
	Rubber Tired Dozers	3	8
Grading	Crawler Tractors	2	8
	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
Building Construction	Cranes	1	8
	Crawler Tractors	3	8
	Forklifts	3	8
	Generator Sets	1	8
	Welders	1	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

### 4.3 CONSTRUCTION ENERGY DEMANDS

#### 4.3.1 CONSTRUCTION EQUIPMENT ELECTRICITY USAGE ESTIMATES

The focus within this section is the energy implications of the construction process, specifically the power cost from on-site electricity consumption during construction of the proposed Project. Based on the *2017 National Construction Estimator*, Richard Pray (2017) (32), the typical power cost per 1,000 square feet of construction per month is estimated to be \$2.32. For the IDI Rider 2 and 4 High Cube Warehouses and PVSD Channel Improvement Project development, the Project plans to develop 1,373,449 sf of High-Cube Transload Short-Term Storage Warehouse (without cold storage) use on 64.78 acres and includes the development and subsequent operations and maintenance of improvements to the 29.70 acres PVSD Channel. Based on information provided in the AQIA, construction activities are anticipated to occur over the course of 14 months (11 months for PVSD Channel Improvement and 12 months for Rider 2 and 4 Warehouse Construction) (29). Based on Table 4-6, the total power cost of the on-site electricity usage during the construction of the Project is estimated to be approximately \$111,577.26 (one stage bridge construction) and \$135,588.93 (two stage bridge construction).

The SCE’s general service rate schedule were used to determine the Project’s electrical usage. As of January 1, 2020, SCE’s general service rate is \$0.08 per kilowatt hours (kWh) of electricity for industrial services (33). As shown on Table 4-7, the total electricity usage from on-site Project construction related activities is estimated to be approximately 1,394,716 kWh (one stage bridge construction) and 1,694,862 kWh (two stage bridge construction).

**TABLE 4-6: ONE STAGE BRIDGE CONSTRUCTION POWER COST**

Land Use	Power Cost (per 1,000 SF of construction per month)	Size (1,000 SF)	Construction Duration (months)	Project Construction Power Cost
PVSD Channel Improvements	\$2.32	1,293.732	14	\$33,016.04
Rider 2 and 4 Warehouse	\$2.32	2,821.817	14	\$78,561.22
<b>CONSTRUCTION POWER COST</b>				<b>\$111,577.26</b>

**TABLE 4-7: TWO STAGE BRIDGE CONSTRUCTION POWER COST**

Land Use	Power Cost (per 1,000 SF of construction per month)	Size (1,000 SF)	Construction Duration (months)	Project Construction Power Cost
PVSD Channel Improvements	\$2.32	1,293.732	19	\$57,027.71
Rider 2 and 4 Warehouse	\$2.32	2,821.883	12	\$78,561.22
<b>CONSTRUCTION POWER COST</b>				<b>\$135,588.93</b>

**TABLE 4-8: ONE STAGE BRIDGE CONSTRUCTION ELECTRICITY USAGE**

Land Use	Cost per kWh	Project Construction Electricity Usage (kWh)
PVSD Channel Improvements	\$0.08	412,701
Rider 2 and 4 Warehouse	\$0.08	982,015
<b>CONSTRUCTION ELECTRICITY USAGE (kWh)</b>		<b>1,394,716</b>

**TABLE 4-9: TWO STAGE BRIDGE CONSTRUCTION ELECTRICITY USAGE**

Land Use	Cost per kWh	Project Construction Electricity Usage (kWh)
PVSD Channel Improvements	\$0.08	712,846
Rider 2 and 4 Warehouse	\$0.08	982,015
<b>CONSTRUCTION ELECTRICITY USAGE (kWh)</b>		<b>1,694,862</b>

**4.3.2 CONSTRUCTION EQUIPMENT FUEL ESTIMATES**

Fuel consumed by construction equipment would be the primary energy resource expended over the course of Project construction. Project construction activity timeline estimates, construction equipment schedules, equipment power ratings, load factors, and associated fuel consumption estimates are presented in Tables 4-10 and 4-11. Eight-hour daily use of all equipment is assumed. The aggregate fuel consumption rate for all equipment is estimated at 18.5 horsepower hour per gallon (hp-hr-gal.), obtained from CARB 2018 Emissions Factors Tables and cited fuel consumption rate factors presented in Table D-24 of the Moyer guidelines (34). For the purposes of this analysis, the calculations are based on all construction equipment being diesel-powered which is standard practice consistent with industry standards. Diesel fuel would be supplied by existing commercial fuel providers serving the City and region.

As presented in Tables 4-10 and 4-11, Project construction activities would consume an estimated 122,511 gallons of diesel fuel for the one stage bridge construction scenario and 130,265 gallons of diesel fuel for the two stage bridge construction scenario. Project construction would represent a “single-event” diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

**TABLE 4-10: ONE STAGE BRIDGE CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (1 OF 2)**

Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption
PVSD Channel Improvements – PVSD Channel Excavation								
Excavation/Grading	41	Scrapers	367	5	8	0.48	7,046	15,616
PVSD Channel Improvements – PVSD Channel Construction								
Detouring Traffic/Street Closure	5	Signal Boards	6	2	8	0.82	79	21
Grubbing/Land Clearing	9	Crawler Tractors	212	1	8	0.43	729	355
		Excavators	158	1	8	0.38	480	234
		Off-Highway Trucks	402	2	8	0.38	2,444	1,189
Grading/Excavation/ Removing Existing Bridge	40	Crawler Tractors	212	2	8	0.43	1,459	3,154
		Excavators	158	2	8	0.38	961	2,077
		Off-Highway Trucks	402	2	8	0.38	2,444	5,285
		Other Construction	172	1	8	0.42	578	1,250
Bridge Construction	190	Bore/Drill Rigs	221	1	8	0.50	884	9,079
		Cranes	231	1	8	0.29	536	5,504
		Excavators	158	1	8	0.38	480	4,933
		Paving Equipment	132	1	8	0.36	380	3,904
		Plate Compactors	8	1	8	0.43	28	283
Drainage/Utilities/Sub-Grade	35	Crawler Tractors	212	2	8	0.43	1,459	2,759
		Scrapers	367	2	8	0.48	2,819	5,332
Paving	16	Pavers	130	1	8	0.42	437	378
		Paving Equipment	132	1	8	0.36	380	329
		Rollers	80	1	8	0.38	243	210
		Signal Boards	6	1	8	0.82	39	34
		Tractors/Loaders/Backhoes	97	2	8	0.37	574	497
<b>CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)</b>								<b>238,518</b>



Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption
Demolition	122	Excavators	158	8	8	0.38	3,843	25,340
		Forklifts	89	1	8	0.20	142	939
		Other Construction	172	2	8	0.42	1,156	7,622
		Rubber Tired Dozers	247	2	8	0.40	1,581	10,425
		Skid Steer Loaders	65	3	8	0.37	577	3,806
		Tractors/Loaders/Backhoes	97	1	8	0.37	287	1,893
Crushing/Pulverizing	60	Generator Sets	1,050	2	8	0.74	12,432	40,320
Site Preparation	105	Rubber Tired Dozers	247	3	8	0.40	2,371	13,458
		Tractors/Loaders/Backhoes	97	4	8	0.37	1,148	6,518
Grading	240	Excavators	158	2	8	0.38	961	12,826
		Graders	187	1	8	0.41	613	8,189
		Rubber Tired Dozers	247	1	8	0.40	790	10,553
		Scrapers	367	2	8	0.48	2,819	37,632
		Tractors/Loaders/Backhoes	97	2	8	0.37	574	7,667
Building Construction	213	Cranes	231	1	8	0.29	536	6,228
		Forklifts	89	3	8	0.20	427	4,965
		Generator Sets	84	1	8	0.74	497	5,779
		Tractors/Loaders/Backhoes	97	3	8	0.37	861	10,010
		Welders	46	1	8	0.45	166	1,925
Paving	181	Pavers	130	2	8	0.42	874	8,311
		Paving Equipment	132	2	8	0.36	760	7,233
		Rollers	80	2	8	0.38	486	4,627
Architectural Coating	144	Air Compressors	78	1	8	0.48	300	2,250
<b>CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)</b>								<b>238,518</b>

**TABLE 4-10: ONE STAGE BRIDGE CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (2 OF 2)**

Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption
Rider 2 and 4 Warehouse Construction								
Site Preparation	20	Crawler Tractors	212	4	8	0.43	2,917	3,154
		Rubber Tired Dozers	247	3	8	0.40	2,371	2,563
Grading	40	Crawler Tractors	212	2	8	0.43	1,459	3,154
		Excavators	158	2	8	0.38	961	2,077
		Graders	187	1	8	0.41	613	1,326
		Rubber Tired Dozers	247	1	8	0.40	790	1,709
		Scrapers	367	2	8	0.48	2,819	6,094
Building Construction	155	Cranes	231	1	8	0.29	536	4,490
		Crawler Tractors	212	3	8	0.43	2,188	18,331
		Forklifts	89	3	8	0.20	427	3,579
		Generator Sets	84	1	8	0.74	497	4,166
		Welders	46	1	8	0.45	166	1,387
Paving	65	Pavers	130	2	8	0.42	874	3,069
		Paving Equipment	132	2	8	0.36	760	2,671
		Rollers	80	2	8	0.38	486	1,709
Architectural Coating	40	Air Compressors	78	1	8	0.48	300	648
<b>CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)</b>								<b>122,511</b>
Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption
Demolition	122	Excavators	158	8	8	0.38	3,843	25,340
		Forklifts	89	1	8	0.20	142	939
		Other Construction	172	2	8	0.42	1,156	7,622
		Rubber Tired Dozers	247	2	8	0.40	1,581	10,425
		Skid Steer Loaders	65	3	8	0.37	577	3,806
		Tractors/Loaders/Backhoes	97	1	8	0.37	287	1,893

Crushing/Pulverizing	60	Generator Sets	1,050	2	8	0.74	12,432	40,320
Site Preparation	105	Rubber Tired Dozers	247	3	8	0.40	2,371	13,458
		Tractors/Loaders/Backhoes	97	4	8	0.37	1,148	6,518
Grading	240	Excavators	158	2	8	0.38	961	12,826
		Graders	187	1	8	0.41	613	8,189
		Rubber Tired Dozers	247	1	8	0.40	790	10,553
		Scrapers	367	2	8	0.48	2,819	37,632
		Tractors/Loaders/Backhoes	97	2	8	0.37	574	7,667
Building Construction	213	Cranes	231	1	8	0.29	536	6,228
		Forklifts	89	3	8	0.20	427	4,965
		Generator Sets	84	1	8	0.74	497	5,779
		Tractors/Loaders/Backhoes	97	3	8	0.37	861	10,010
		Welders	46	1	8	0.45	166	1,925
Paving	181	Pavers	130	2	8	0.42	874	8,311
		Paving Equipment	132	2	8	0.36	760	7,233
		Rollers	80	2	8	0.38	486	4,627
Architectural Coating	144	Air Compressors	78	1	8	0.48	300	2,250
<b>CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)</b>								<b>238,518</b>

**TABLE 4-11: TWO STAGE BRIDGE CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (1 OF 3)**

Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption
PVSD Channel Improvements – PVSD Channel Excavation								
Excavation/Grading	41	Scrapers	367	5	8	0.48	7,046	15,616
PVSD Channel Improvements – PVSD Channel Construction								
Implementing Traffic Controls	5	Signal Boards	6	2	8	0.82	79	21
Grubbing/Land Clearing	10	Crawler Tractors	212	1	8	0.43	729	394
		Excavators	158	1	8	0.38	480	260
		Off-Highway Trucks	402	1	8	0.38	1,222	661
Stage 1: Grading/Excavation/ Removing Existing Bridge	30	Crawler Tractors	212	1	8	0.43	729	1,183
		Excavators	158	2	8	0.38	961	1,558
		Off-Highway Trucks	402	2	8	0.38	2,444	3,964
		Other Construction	172	1	8	0.42	578	937
Stage 1: Bridge Construction	109	Bore/Drill Rigs	221	1	8	0.50	884	5,208
		Cranes	231	1	8	0.29	536	3,158
		Excavators	158	1	8	0.38	480	2,830
		Pavers	130	1	8	0.42	437	2,574
		Plate Compactors	8	1	8	0.43	28	162
Implementing Traffic	4	Signal Boards	6	2	8	0.82	79	17
Stage 2: Grading/Excavation/ Removing Existing Bridge	30	Crawler Tractors	212	1	8	0.43	729	1,183
		Excavators	158	2	8	0.38	961	1,558
		Off-Highway Trucks	402	2	8	0.38	2,444	3,964
		Other Construction	172	1	8	0.42	578	937

**TABLE 4-11: TWO STAGE BRIDGE CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (2 OF 3)**

Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption
PVSD Channel Improvements – PVSD Channel Construction								
Stage 2: Bridge Construction	137	Bore/Drill Rigs	221	1	8	0.50	884	6,546
		Cranes	231	1	8	0.29	536	3,969
		Excavators	158	1	8	0.38	480	3,557
		Pavers	130	1	8	0.42	437	3,235
		Plate Compactors	8	1	8	0.43	28	204
Drainage/Utilities/Sub-Grade	22	Crawler Tractors	212	2	8	0.43	1,459	1,735
		Scrapers	367	2	8	0.48	2,819	3,352
Paving	15	Pavers	130	1	8	0.42	437	354
		Paving Equipment	132	1	8	0.36	380	308
		Rollers	80	1	8	0.38	243	197
		Signal Boards	6	1	8	0.82	39	32
		Tractors/Loaders/Backhoes	97	2	8	0.37	574	466
Rider 2 and 4 Warehouse Construction								
Site Preparation	20	Crawler Tractors	212	4	8	0.43	2,917	3,154
		Rubber Tired Dozers	247	3	8	0.40	2,371	2,563
Grading	40	Crawler Tractors	212	2	8	0.43	1,459	3,154
		Excavators	158	2	8	0.38	961	2,077
		Graders	187	1	8	0.41	613	1,326
		Rubber Tired Dozers	247	1	8	0.40	790	1,709
		Scrapers	367	2	8	0.48	2,819	6,094

**TABLE 4-11: TWO STAGE BRIDGE CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (3 OF 3)**

Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption
Rider 2 and 4 Warehouse Construction								
Building Construction	155	Cranes	231	1	8	0.29	536	4,490
		Crawler Tractors	212	3	8	0.43	2,188	18,331
		Forklifts	89	3	8	0.20	427	3,579
		Generator Sets	84	1	8	0.74	497	4,166
		Welders	46	1	8	0.45	166	1,387
Paving	65	Pavers	130	2	8	0.42	874	3,069
		Paving Equipment	132	2	8	0.36	760	2,671
		Rollers	80	2	8	0.38	486	1,709
Architectural Coating	40	Air Compressors	78	1	8	0.48	300	648
<b>CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)</b>								<b>130,265</b>

### 4.3.3 CONSTRUCTION WORKER FUEL ESTIMATES

With respect to estimated VMT for the Project, the construction worker trips would generate an estimated 2,475,612 VMT (one stage bridge construction) and 4,885,486 VMT (two stage bridge construction) (29). Based on CalEEMod methodology, it is assumed that 50% of all vendor trips are from light-duty-auto vehicles (LDA), 25% are from light-duty-trucks (LDT1<sup>3</sup>), and 25% are from light-duty-trucks (LDT2<sup>4</sup>). Data regarding Project related construction worker trips were based on CalEEMod defaults utilized within the AQIA.

Vehicle fuel efficiencies for LDA, LDT1, and LDT2 were estimated using information generated within the 2017 version of the EMFAC developed by CARB. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, and VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (31). EMFAC2017 was run for the LDA, LDT1, and LDT2 vehicle class within the California sub-area for the 2020 and 2021 calendar year. Data from EMFAC2017 is shown in Appendix 4.4.

As generated by EMFAC2017, an aggregated fuel economy of LDAs ranging from model year 1974 to model years 2020 and 2021 are estimated to have fuel efficiencies of 31.03 miles per gallon (mpg) and 31.83 mpg, respectively. Tables 4-12 and 4-13 provides an estimated annual fuel consumption resulting from Project-related construction worker trips. Based on Tables 4-12 and 4-13, it is estimated that 38,847 gallons of fuel (one stage bridge construction) and 76,695 gallons of fuel (two stage bridge construction) will be consumed related to construction worker trips during full construction of the Project.

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<sup>3</sup> Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

<sup>4</sup> Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

**TABLE 4-12: ONE STAGE BRIDGE CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDA)**

Construction Activity	Duration (Days)	Worker Trips / Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
<b>2020</b>						
PVSD Channel Improvements – PVSD Channel Excavation						
Excavation/Grading	41	10	14.7	6,027	31.03	194
PVSD Channel Improvements – PVSD Channel Construction						
Detouring Traffic/ Street Closure	5	3	14.7	221	31.03	7
Grubbing/Land Clearing	9	5	14.7	662	31.03	21
Grading/Excavation/ Removing Existing Bridge	9	9	14.7	1,191	31.03	38
Rider 2 and 4 Warehouse Construction						
Site Preparation	20	9	14.7	2,646	31.03	85
Grading	3	10	14.7	441	31.03	14
<b>2021</b>						
PVSD Channel Improvements – PVSD Channel Construction						
Grading/Excavation/ Removing Existing Bridge	31	9	14.7	4,101	31.83	129
Bridge Construction	190	272	14.7	759,696	31.83	23,867
Drainage/Utilities/ Sub-Grade	35	5	14.7	2,573	31.83	81
Paving	16	8	14.7	1,882	31.83	59
Rider 2 and 4 Warehouse Construction						
Grading	16	10	14.7	2,352	31.83	74
Building Construction	37	593	14.7	322,533	31.83	10,133
Paving	155	8	14.7	18,228	31.83	573
Architectural Coating	65	119	14.7	113,705	31.83	3,572
<b>PROJECT CONSTRUCTION WORKER (LDA) FUEL CONSUMPTION</b>						<b>38,847</b>



**TABLE 4-13: TWO STAGE BRIDGE CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDA)**

Construction Activity	Duration (Days)	Worker Trips / Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
<b>2020</b>						
PVSD Channel Improvements – PVSD Channel Excavation						
Excavation/Grading	41	10	14.7	6,027	31.03	194
PVSD Channel Improvements – PVSD Channel Construction						
Implementing Traffic Controls	5	3	14.7	221	31.03	7
Grubbing/Land Clearing	10	4	14.7	588	31.03	19
Stage 1: Grading/Excavation/ Removing Existing Bridge	30	8	14.7	3,528	31.03	114
Rider 2 and 4 Warehouse Construction						
Site Preparation	20	9	14.7	2,646	31.03	85
Grading	3	10	14.7	441	31.03	14
<b>2021</b>						
PVSD Channel Improvements – PVSD Channel Construction						
Stage 1: Grading/Excavation/ Removing Existing Bridge	22	8	14.7	2,587	31.83	81
Stage 1: Bridge Construction	109	272	14.7	435,826	31.83	13,692
Implementing Traffic Controls (Shifting Traffic)	4	3	14.7	176	31.83	6
Stage 2: Grading/Excavation/ Removing Existing Bridge	30	8	14.7	3,528	31.83	111
Stage 2: Bridge Construction	137	272	14.7	547,781	31.83	17,209
Drainage/Utilities/Sub-Grade	22	5	14.7	1,617	31.83	51
Paving	15	8	14.7	1,764	31.83	55
Rider 2 and 4 Warehouse Construction						
Grading	37	10	14.7	5,439	31.83	171
Building Construction	155	593	14.7	1,351,1	31.83	42,448
Paving	65	8	14.7	7,644	31.83	240
Architectural Coating	40	119	14.7	69,972	31.83	2,198
<b>PROJECT CONSTRUCTION WORKER (LDA) FUEL CONSUMPTION</b>						<b>76,695</b>

The EMFAC2017 aggregated fuel economy of LDT1s ranging from model year 1974 to model years 2020 and 2021 are estimated to have fuel efficiencies of 26.10 mpg and 26.78 mpg, respectively. Tables 4-14 and 4-15 provides an estimated annual fuel consumption resulting from LDT1s related to the Project construction worker trips. Based on Tables 4-14 and 4-15, it is estimated that 23,149 gallons of fuel (one stage bridge construction) and 45,656 gallons of fuel (two stage bridge construction) will be consumed related to construction worker trips during full construction of the Project.

**TABLE 4-14: ONE STAGE BRIDGE CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDT1)**

Construction Activity	Duration (Days)	Worker Trips / Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
<b>2020</b>						
PVSD Channel Improvements – PVSD Channel Excavation						
Excavation/Grading	41	5	14.7	3,014	26.10	115
PVSD Channel Improvements – PVSD Channel Construction						
Detouring Traffic/Street Closure	5	2	14.7	147	26.10	6
Grubbing/Land Clearing	9	3	14.7	397	26.10	15
Grading/Excavation/Removing Existing Bridge	9	5	14.7	662	26.10	25
Rider 2 and 4 Warehouse Construction						
Site Preparation	20	5	14.7	1,470	26.10	56
Grading	3	5	14.7	221	26.10	8
<b>2021</b>						
PVSD Channel Improvements – PVSD Channel Construction						
Grading/Excavation/Removing Existing Bridge	31	5	14.7	2,279	26.78	85
Bridge Construction	190	136	14.7	379,848	26.78	14,186
Drainage/Utilities/Sub-Grade	35	3	14.7	1,544	26.78	58
Paving	16	4	14.7	941	26.78	35
Rider 2 and 4 Warehouse Construction						
Grading	16	5	14.7	1,176	26.78	44
Building Construction	37	297	14.7	161,538	26.78	6,033
Paving	155	4	14.7	9,114	26.78	340
Architectural Coating	65	60	14.7	57,330	26.78	2,141
<b>PROJECT CONSTRUCTION WORKER (LDT1) FUEL CONSUMPTION</b>						<b>23,149</b>

**TABLE 4-15: TWO STAGE BRIDGE CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDT1)**

Construction Activity	Duration (Days)	Worker Trips / Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
<b>2020</b>						
PVSD Channel Improvements – PVSD Channel Excavation						
Excavation/Grading	41	5	14.7	3,014	26.10	115
PVSD Channel Improvements – PVSD Channel Construction						
Implementing Traffic Controls	5	2	14.7	147	26.10	6
Grubbing/Land Clearing	10	2	14.7	294	26.10	11
Stage 1: Grading/Excavation/ Removing Existing Bridge	30	4	14.7	1,764	26.10	68
Rider 2 and 4 Warehouse Construction						
Site Preparation	20	5	14.7	1,470	26.10	56
Grading	3	5	14.7	221	26.10	8
<b>2021</b>						
PVSD Channel Improvements – PVSD Channel Construction						
Stage 1: Grading/Excavation/ Removing Existing Bridge	22	4	14.7	1,294	26.78	48
Stage 1: Bridge Construction	109	136	14.7	217,913	26.78	8,139
Implementing Traffic Controls (Shifting Traffic)	4	2	14.7	118	26.78	4
Stage 2: Grading/Excavation/ Removing Existing Bridge	30	4	14.7	1,764	26.78	66
Stage 2: Bridge Construction	137	136	14.7	273,890	26.78	10,229
Drainage/Utilities/ Sub-Grade	22	3	14.7	970	26.78	36
Paving	15	4	14.7	882	26.78	33
Rider 2 and 4 Warehouse Construction						
Grading	37	5	14.7	2,720	26.78	102
Building Construction	155	297	14.7	676,715	26.78	25,274
Paving	65	4	14.7	3,822	26.78	143
Architectural Coating	40	60	14.7	35,280	26.78	1,318
<b>PROJECT CONSTRUCTION WORKER (LDT1) FUEL CONSUMPTION</b>						<b>45,656</b>

The EMFAC2017 aggregated fuel economy of LDT2s ranging from model year 1974 to model years 2020 and 2021 are estimated to have fuel efficiencies of 24.25 mpg and 25.09 mpg, respectively. Tables 4-16 and 4-17 provides an estimated annual fuel consumption resulting from LDT2s related to the Project construction worker trips. Based on Tables 4-16 and 4-17, it is estimated that 24,708 gallons of fuel (one stage bridge construction) and 48,729 gallons of fuel (two stage bridge construction) will be consumed related to construction worker trips during full construction of the Project.

**TABLE 4-16: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDT2)**

Construction Activity	Duration (Days)	Worker Trips / Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
<b>2020</b>						
PVSD Channel Improvements – PVSD Channel Excavation						
Excavation/Grading	41	5	14.7	3,014	24.25	124
PVSD Channel Improvements – PVSD Channel Construction						
Detouring Traffic/Street Closure	5	2	14.7	147	24.25	6
Grubbing/Land Clearing	9	3	14.7	397	24.25	16
Grading/Excavation/ Removing Existing Bridge	9	5	14.7	662	24.25	27
Rider 2 and 4 Warehouse Construction						
Site Preparation	20	5	14.7	1,470	24.25	61
Grading	3	5	14.7	221	24.25	9
<b>2021</b>						
PVSD Channel Improvements – PVSD Channel Construction						
Grading/Excavation/ Removing Existing Bridge	31	5	14.7	2,279	25.09	91
Bridge Construction	190	136	14.7	379,848	25.09	15,141
Drainage/Utilities/Sub-Grade	35	3	14.7	1,544	25.09	62
Paving	16	4	14.7	941	25.09	37
Rider 2 and 4 Warehouse Construction						
Grading	16	5	14.7	1,176	25.09	47
Building Construction	37	297	14.7	161,538	25.09	6,439
Paving	155	4	14.7	9,114	25.09	363
Architectural Coating	65	60	14.7	57,330	25.09	2,285
<b>PROJECT CONSTRUCTION WORKER (LDT2) FUEL CONSUMPTION</b>						<b>24,708</b>

<sup>A</sup> Trip has been rounded up.

**TABLE 4-17: TWO STAGE BRIDGE CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (LDT2)**

Construction Activity	Duration (Days)	Worker Trips / Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
<b>2020</b>						
PVSD Channel Improvements – PVSD Channel Excavation						
Excavation/Grading	41	5	14.7	3,014	24.25	124
PVSD Channel Improvements – PVSD Channel Construction						
Implementing Traffic Controls	5	2	14.7	147	24.25	6
Grubbing/Land Clearing	10	2	14.7	294	24.25	12
Stage 1: Grading/Excavation/ Removing Existing Bridge	30	4	14.7	1,764	24.25	73
Rider 2 and 4 Warehouse Construction						
Site Preparation	20	5	14.7	1,470	24.25	61
Grading	3	5	14.7	221	24.25	9
<b>2021</b>						
PVSD Channel Improvements – PVSD Channel Construction						
Stage 1: Grading/Excavation/ Removing Existing Bridge	22	4	14.7	1,294	25.09	52
Stage 1: Bridge Construction	109	136	14.7	217,913	25.09	8,686
Implementing Traffic Controls (Shifting Traffic)	4	2	14.7	118	25.09	5
Stage 2: Grading/Excavation/ Removing Existing Bridge	30	4	14.7	1,764	25.09	70
Stage 2: Bridge Construction	137	136	14.7	273,890	25.09	10,917
Drainage/Utilities/ Sub-Grade	22	3	14.7	970	25.09	39
Paving	15	4	14.7	882	25.09	35
Rider 2 and 4 Warehouse Construction						
Grading	37	5	14.7	2,720	25.09	108
Building Construction	155	297	14.7	676,715	25.09	26,973
Paving	65	4	14.7	3,822	25.09	152
Architectural Coating	40	60	14.7	35,280	25.09	1,406
<b>PROJECT CONSTRUCTION WORKER (LDT2) FUEL CONSUMPTION</b>						<b>48,729</b>

It should be noted that construction worker trips would represent a “single-event” gasoline fuel demand and would not require on-going or permanent commitment of fuel resources for this purpose.

**4.3.4 CONSTRUCTION VENDOR FUEL ESTIMATES**

With respect to estimated VMT, the construction vendor trips would generate an estimated 396,391 VMT (one stage bridge construction) and 856,097 VMT (two stage bridge construction) along area roadways for the Project (29). It is assumed that 50% of all vendor trips are from medium-heavy duty trucks (MHDT) and 50% are from heavy-heavy duty trucks (HHDT). These assumptions are consistent with the CalEEMod defaults utilized within the within the AQIA (29). Vehicle fuel efficiencies for MHDTs and HHDTs were estimated using information generated within EMFAC2017. As all vendor activities occur during 2021, EMFAC2017 was run for the MHDT and HHDT vehicle class within the California sub-area for the 2021 calendar year. Data from EMFAC2017 is shown in Appendix 4.5.

As generated by EMFAC2017, an aggregated fuel economy of MHDTs and HHDTs ranging from model year 1974 to model years 2021 are estimated to have fuel efficiency of 10.02 mpg. Based on Tables 4-18 and 4-19, it is estimated that 19,779 gallons of fuel (one stage bridge construction) and 42,716 gallons of fuel (two stage bridge construction) will be consumed related to construction vendor trips (MHDTs) during full construction of the Project.

**TABLE 4-18: ONE STAGE BRIDGE CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (MHDT)**

Construction Activity	Duration (Days)	Vendor Trips / Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
<b>2021</b>						
PVSD Channel Improvements – PVSD Channel Construction						
Bridge Construction	190	106	6.9	138,966	10.02	13,868
Rider 2 and 4 Warehouse Construction						
Building Construction	37	232	6.9	59,230	10.02	5,911
<b>PROJECT VENDOR (MHDT) TOTAL</b>						<b>19,779</b>

**TABLE 4-19: TWO STAGE BRIDGE CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (MHDT)**

Construction Activity	Duration (Days)	Vendor Trips / Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
<b>2021</b>						
PVSD Channel Improvements – PVSD Channel Construction						
Stage 1: Bridge Construction	109	106	6.9	79,723	10.02	7,956
Stage 2: Bridge Construction	137	106	6.9	100,202	10.02	9,999
Rider 2 and 4 Warehouse Construction						
Building Construction	155	232	6.9	248,124	10.02	24,761
<b>PROJECT VENDOR (MHDT) TOTAL</b>						<b>42,716</b>

Tables 4-20 and 4-21 shows the estimated fuel economy of HHDTs accessing the Project sites. Based on Tables 4-20 and 4-21, it is estimated that 28,782 gallons of fuel (one stage bridge construction) and 62,162 gallons of fuel (two stage bridge construction) will be consumed related to construction vendor trips (HHDTs) during full construction of the Project.

**TABLE 4-20: ONE STAGE BRIDGE CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (HHDT)**

Construction Activity	Duration (Days)	Vendor Trips / Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
<b>2021</b>						
PVSD Channel Improvements – PVSD Channel Construction						
Bridge Construction	190	106	6.9	138,966	6.89	20,181
Rider 2 and 4 Warehouse Construction						
Building Construction	37	232	6.9	59,230	6.89	8,601
<b>PROJECT VENDOR (HHDT) TOTAL</b>						<b>28,782</b>

**TABLE 4-21: TWO STAGE BRIDGE CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (HHDT)**

Construction Activity	Duration (Days)	Vendor Trips / Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
<b>2021</b>						
PVSD Channel Improvements – PVSD Channel Construction						
Stage 1: Bridge Construction	109	106	6.9	79,723	6.89	11,577
Stage 2: Bridge Construction	137	106	6.9	100,202	6.89	14,551
Rider 2 and 4 Warehouse Construction						
Building Construction	155	232	6.9	248,124	6.89	36,033
<b>PROJECT VENDOR (HHDT) TOTAL</b>						<b>62,162</b>

It should be noted that Project construction vendor trips would represent a “single-event” diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

**4.3.5 CONSTRUCTION ENERGY EFFICIENCY/CONSERVATION MEASURES**

The equipment used for Project construction would conform to CARB regulations and California emissions standards. There are no unusual Project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities; or equipment that would not conform to current emissions standards (and related fuel efficiencies). Equipment employed in construction of the Project would therefore not result in inefficient wasteful, or unnecessary consumption of fuel.

The Project would utilize construction contractors which practice compliance with applicable CARB regulation regarding retrofitting, repowering, or replacement of diesel off-road construction equipment. Additionally, CARB has adopted the Airborne Toxic Control Measure to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter and other Toxic Air Contaminants. Compliance with anti-idling and emissions regulations would result in a more efficient use of construction-related energy and the minimization or elimination of wasteful or unnecessary consumption of energy. Idling restrictions and the use of newer engines and equipment would result in less fuel combustion and energy consumption.

Additionally, certain incidental construction-source energy efficiencies would likely accrue through implementation of California regulations and best available control measures (BACM). More specifically, CCR Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than five minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. To this end, “grading plans shall reference the requirement that a sign shall be posted on-site stating that construction workers need to shut off engines at or before five minutes of idling.” In this manner, construction equipment operators are informed that engines are to be turned off at or prior to five minutes



of idling. Enforcement of idling limitations is realized through periodic site inspections conducted by City building officials, and/or in response to citizen complaints.

Indirectly, construction energy efficiencies and energy conservation would be achieved for the proposed development through energy efficiencies realized from bulk purchase, transport and use of construction materials.

A full analysis related to the energy needed to form construction materials is not included in this analysis due to a lack of detailed Project-specific information on construction materials. At this time, an analysis of the energy needed to create Project-related construction materials would be extremely speculative and thus has not been prepared.

In general, the construction processes promote conservation and efficient use of energy by reducing raw materials demands, with related reduction in energy demands associated with raw materials extraction, transportation, processing and refinement. Use of materials in bulk reduces energy demands associated with preparation and transport of construction materials as well as the transport and disposal of construction waste and solid waste in general, with corollary reduced demands on area landfill capacities and energy consumed by waste transport and landfill operations.

#### 4.4 OPERATIONAL ENERGY DEMANDS

Energy consumption in support of or related to Project operations would include transportation energy demands (energy consumed by resident, employee, and patron vehicles accessing the Project sites) and facilities energy demands (energy consumed by building operations and site maintenance activities).

##### 4.4.1 TRANSPORTATION ENERGY DEMANDS

Energy that would be consumed by Project-generated traffic is a function of total VMT and estimated vehicle fuel economies of vehicles accessing the Project sites.

##### LIGHT-DUTY AUTOS

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project’s AQIA, the Project would generate an estimated 8,004,286 annual VMT along area roadways for all LDAs with full build-out of the Project (29). Table 4-22 provides an estimated range of annual fuel consumption resulting from Project generated LDAs. Based on Table 4-22, it is estimated that 251,462 gallons of fuel will be consumed from Project generated LDA trips.

**TABLE 4-22: PROJECT-GENERATED LDA VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
8,004,286	31.83	251,462

**LIGHT-DUTY TRUCKS**

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project’s AQIA, the Project would generate an estimated 557,991 annual VMT along area roadways for all Light-Duty Trucks (LDT1)<sup>5</sup> vehicles with full build-out of the Project (29). Table 4-23 provides an estimated range of annual fuel consumption resulting from Project generated LDT1s. Based on Table 4-23, it is estimated that 20,840 gallons of fuel will be consumed from Project generated LDT1 trips.

**TABLE 4-23 PROJECT-GENERATED LDT1 VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
557,991	26.78	20,840

Additionally, the Project would generate an estimated 2,732,232 annual VMT along area roadways for all LDT2<sup>6</sup> vehicles with full build-out of the Project (29). Table 4-24 provides an estimated range of annual fuel consumption resulting from Project generated LDT2s. Based on Table 4-24, it is estimated that 108,905 gallons of fuel will be consumed from Project generated LDT2 trips.

**TABLE 4-24: PROJECT-GENERATED LDT2 VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
2,732,232	25.09	108,905

**MEDIUM-DUTY TRUCKS**

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project’s AQIA, the Project would generate an estimated 1,750,938 annual VMT along area roadways for all Medium-Duty Trucks (MDV) vehicles with full build-out of the Project (29). Table 4-25 provides an estimated range of annual fuel consumption resulting from Project generated MDVs. Based on Table 4-25, it is estimated that 87,209 gallons of fuel will be consumed from Project generated MDV trips.

**TABLE 4-25: PROJECT-GENERATED MDV VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
1,750,938	20.08	87,209

<sup>5</sup> Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

<sup>6</sup> Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

**LIGHT-HEAVY DUTY TRUCKS**

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project’s AQIA, the Project would generate an estimated 1,039,018 annual VMT along area roadways for all Light-Heavy-Duty Trucks (LHDT1)<sup>7</sup> vehicles with full build-out of the Project (29). Table 4-26 provides an estimated range of annual fuel consumption resulting from Project generated LHDT1s. Based on Table 4-26, it is estimated that 73,048 gallons of fuel will be consumed from Project generated LHDT1 trips.

**TABLE 4-26: PROJECT-GENERATED LHDT1 TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
1,039,018	14.22	73,048

**MEDIUM-HEAVY DUTY TRUCKS**

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project’s AQIA, the Project would generate an estimated 1,269,911 annual VMT along area roadways for all MHDTs with full build-out of the Project (29). Table 4-27 provides an estimated range of annual fuel consumption resulting from Project generated MHDTs. Based on Table 4-27, it is estimated that 126,728 gallons of fuel will be consumed from Project generated MHDT trips.

**TABLE 4-27: PROJECT-GENERATED MHDT TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
1,269,911	10.02	126,728

**HEAVY-HEAVY DUTY TRUCKS**

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project’s AQIA, the Project would generate an estimated 3,886,697 annual VMT along area roadways for all HHDTs with full build-out of the Project (29). Table 4-28 provides an estimated range of annual fuel consumption resulting from Project generated HHDTs. Based on Table 4-28, it is estimated that 564,429 gallons of fuel will be consumed from Project generated HHDT trips.

**TABLE 4-28: PROJECT-GENERATED HHDT TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
3,886,697	6.89	564,429

<sup>7</sup> Vehicles under the LHDT1 category have a GVWR of 8,501 to 10,000 lbs.

As summarized on Table 4-29 the Project will result in 19,241,072 annual VMT and an estimated annual fuel consumption of 1,232,621 gallons of fuel.

**TABLE 4-29: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (ALL VEHICLES)**

Vehicle Type	Annual VMT	Estimated Annual Fuel Consumption (gallons)
LDA	8,004,286	251,462
LDT1	557,991	20,840
LDT2	2,732,232	108,905
MDV	1,750,938	87,209
LHDT	1,039,018	73,048
MHDT	1,269,911	126,728
HHDT	3,886,697	564,429
<b>TOTAL (ALL VEHICLES)</b>	<b>19,241,072</b>	<b>1,232,621</b>

**4.4.2 FACILITY ENERGY DEMANDS**

Project building operations and Project site maintenance activities would result in the consumption of electricity. Electricity would be supplied to the Project by SCE. Annual electricity demands of the Project are summarized in Table 4-30.

Based on information provided by the Project Applicant, the Project would not require natural gas for operations and no natural gas infrastructure would be installed as part of the Project. As such, emissions associated with natural gas use were excluded from the analysis.

Energy use in buildings is divided into energy consumed by the built environment and energy consumed by uses that are independent of the construction of the building such as in plug-in appliances. In California, the California Building Standards Code Title 24 governs energy consumed by the built environment, mechanical systems, and some types of fixed lighting (35). Non-building energy use, or “plug-in” energy use can be further subdivided by specific end-use (refrigeration, cooking, appliances, etc.).

**TABLE 4-30: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY**

<b>Electricity Demand</b>	<b>kWh/year</b>
Other Asphalt Surfaces	0
Other Non-Asphalt Surfaces	0
Parking Lot	71,960
Rider 2 and 4 Warehouse	2,609,550
<b>TOTAL PROJECT ELECTRICITY DEMAND</b>	<b>2,681,510</b>

kWh/year – kilo-watt hours per year

**4.4.3 OPERATIONAL ENERGY EFFICIENCY/CONSERVATION MEASURES**

Energy efficiency/energy conservation attributes of the Project would be complemented by increasingly stringent state and federal regulatory actions addressing vehicle fuel economies and vehicle emissions standards; and enhanced building/utilities energy efficiencies mandated under California building codes (e.g., Title24, California Green Building Standards Code).

It should also be noted that the Project would not result in a substantial increase in demand or transmission service, resulting in the need for new or expanded sources of energy supply or new or expanded energy delivery systems or infrastructure because it would be served by the existing electric utility lines in the Project vicinity.

**ENHANCED VEHICLE FUEL EFFICIENCIES**

Project annual fuel consumption estimates presented previously in Tables 4-29 represent likely potential maximums that would occur for the Project. Under subsequent future conditions, average fuel economies of vehicles accessing the Project sites can be expected to improve as older, less fuel-efficient vehicles are removed from circulation, and in response to fuel economy and emissions standards imposed on newer vehicles entering the circulation system.

**4.5 SUMMARY**

**4.5.1 CONSTRUCTION ENERGY DEMANDS**

The estimated power cost of on-site electricity usage during the construction of the Project is assumed to be around \$111,577.26 (one stage bridge construction) and \$135,588.93 (two stage bridge construction). Additionally, based on the assumed power cost, it is estimated that the total electricity usage during construction, after full Project build-, is calculated to be around 1,394,716 kWh (one stage bridge construction) and 1,694,862 kWh (two stage bridge construction).

Construction equipment used by the Project would result in single event consumption of approximately 122,551 gallons of diesel fuel (one stage bridge construction) and 130,265 gallons of diesel fuel (two stage bridge construction). Construction equipment use of fuel would not be atypical for the type of construction proposed because there are no aspects of the Project’s proposed construction process that are unusual or energy-intensive, and Project construction

equipment would conform to the applicable CARB emissions standards, acting to promote equipment fuel efficiencies.

CCR Title 13, Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than 5 minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. BACMs inform construction equipment operators of this requirement. Enforcement of idling limitations is realized through periodic site inspections conducted by City building officials, and/or in response to citizen complaints.

Construction worker trips for full construction of the Project would result in the estimated fuel consumption of 86,705 gallons of fuel (one stage bridge construction) and 171,080 gallons of fuel (two stage bridge construction). Additionally, fuel consumption from construction vendor trips (MHDTs and HHDTs) will total approximately 48,561 gallons of fuel (one stage bridge construction) and 104,878 gallons of fuel (two stage bridge construction). Diesel fuel would be supplied by City and regional commercial vendors. Indirectly, construction energy efficiencies and energy conservation would be achieved through the use of bulk purchases, transport and use of construction materials. The 2019 IEPR released by the CEC has shown that fuel efficiencies are getting better within on and off-road vehicle engines due to more stringent government requirements (24). As supported by the preceding discussions, Project construction energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

#### **4.5.2 OPERATIONAL ENERGY DEMANDS**

##### **TRANSPORTATION ENERGY DEMANDS**

Annual vehicular trips and related VMT generated by the operational of the Project would result in an estimated 253,419 gallons of fuel consumption per year for LDAs, 21,106 gallons of fuel for LDT1s, 110,352 gallons of fuel for LDT2s, 87,870 gallons for fuel for MDVs, 73,719 gallons of fuel for LHDT1s, 130,482 gallons of fuel for MHDTs, and 560,679 gallons for fuel for HHDTs. The total estimated annual fuel consumption from Project generated VMT would result in a fuel demand 764,881 gallons of fuel.

Fuel would be provided by current and future commercial vendors. Trip generation and VMT generated by the Project are consistent with other industrial uses of similar scale and configuration, as reflected respectively in the Institute of Transportation Engineers (ITE) Trip Generation Manual (10th Ed., 2017); and CalEEMod. That is, the Project does not propose uses or operations that would inherently result in excessive and wasteful vehicle trips and VMT, nor associated excess and wasteful vehicle energy consumption.

Enhanced fuel economies realized pursuant to federal and state regulatory actions, and related transition of vehicles to alternative energy sources (e.g., electricity, natural gas, biofuels, hydrogen cells) would likely decrease future gasoline fuel demands per VMT. Location of the Project proximate to regional and local roadway systems tends to reduce VMT within the region, acting to reduce regional vehicle energy demands. The Project would implement sidewalks, facilitating and encouraging pedestrian access. Facilitating pedestrian and bicycle access would reduce VMT and associated energy consumption. In compliance with the California Green

Building Standards Code, the Project would promote the use of bicycles as an alternative mean of transportation by providing short-term and/or long-term bicycle parking accommodations. As supported by the preceding discussions, Project transportation energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

#### **FACILITY ENERGY DEMANDS**

Project facility operational energy demands are estimated at: 2,681,510 kWh/year of electricity. Electricity would be supplied by SCE. The Project proposes conventional industrial uses reflecting contemporary energy efficient/energy conserving designs and operational programs. Uses proposed by the Project are not inherently energy intensive, and the Project energy demands in total would be comparable to, or less than, other projects of similar scale and configuration. It should also be noted that based on information provided by the Project Applicant, the Project would not require natural gas for operations and no natural gas infrastructure would be installed as part of the Project. As such, emissions associated with natural gas use were excluded from the analysis.

Additionally, the Project will be required to comply with the applicable Title 24 standards which will further ensure that the Project energy demands would not be inefficient, wasteful, or otherwise unnecessary.

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## 5 CONCLUSIONS

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***Energy Impact-1: Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation.***

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As supported by the preceding analyses, Project construction and operations would not result in the inefficient, wasteful or unnecessary consumption of energy. Further, the energy demands of the Project can be accommodated within the context of available resources and energy delivery systems. The Project would therefore not cause or result in the need for additional energy producing or transmission facilities. The Project would not engage in wasteful or inefficient uses of energy and aims to achieve energy conservations goals within the State of California.

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***Energy Impact-2: Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.***

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Consistent with the PVCCSP EIR, the Project would implement the applicable mitigation measures listed in ES.2, which would lessen the Project's energy usage. Further, the proposed Project is subject to California Building Code requirements. New buildings must achieve the 2019 Building and Energy Efficiency Standards and the 2019 California Green Building Standards requirements.

The Project would provide for, and promote, energy efficiencies consistent with other applicable federal and State of California standards and regulations, and in so doing would meet all California Building Standards Code Title 24 standards. Moreover, energy consumed by the Project's operation is calculated to be comparable to energy consumed by other industrial uses of similar scale and intensity that are constructed and operating in California. On this basis, the Project would not result in the inefficient, wasteful, or unnecessary consumption of energy. Further, the Project would not cause or result in the need for additional energy producing facilities or energy delivery systems.

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## 7 CERTIFICATIONS

The contents of this energy analysis report represent an accurate depiction of the environmental impacts associated with the proposed IDI Rider 2 and 4 High Cube Warehouses and Perris Valley Storm Drain Channel Improvement Project. The information contained in this energy analysis report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 336-5987.

Haseeb Qureshi  
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### EDUCATION

Master of Science in Environmental Studies  
California State University, Fullerton • May 2010

Bachelor of Arts in Environmental Analysis and Design  
University of California, Irvine • June 2006

### PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners  
AWMA – Air and Waste Management Association  
ASTM – American Society for Testing and Materials

### PROFESSIONAL CERTIFICATIONS

Planned Communities and Urban Infill – Urban Land Institute • June 2011  
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008  
Principles of Ambient Air Monitoring – California Air Resources Board • August 2007  
AB2588 Regulatory Standards – Trinity Consultants • November 2006  
Air Dispersion Modeling – Lakes Environmental • June 2006

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**APPENDIX 4.1:**

**CALEEMOD PVSD CHANNEL IMPROVEMENTS – PVSD CHANNEL EXCAVATION ANNUAL EMISSIONS  
MODEL OUTPUTS**



Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

**Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated)**  
**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	29.70	Acre	29.70	1,293,732.00	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>	2020
<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**

Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

Project Characteristics -

Land Use -

Construction Phase - Construction Schedule approved by the Project Applicant

Off-road Equipment - Construction Equipment based on consultation with Project Applicant

Grading - For purposes of analysis, total acres graded per day is based on the equipment specific grading rates (CalEEMod Appendix A) and the equipment list.

Construction Off-road Equipment Mitigation - MM Air 3 and MM Air 6

Trips and VMT - Material will be pushed on-site by Scrapers

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	45.00	41.00
tblGrading	MaterialImported	0.00	180,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblTripsAndVMT	HaulingTripNumber	22,500.00	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblVehicleEF	HHD	1.50	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.11	0.00
tblVehicleEF	HHD	3.46	5.47

Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	HHD	0.46	0.49
tblVehicleEF	HHD	1.51	5.9260e-003
tblVehicleEF	HHD	6,555.40	1,091.81
tblVehicleEF	HHD	1,477.34	1,404.21
tblVehicleEF	HHD	4.68	0.05
tblVehicleEF	HHD	27.96	5.98
tblVehicleEF	HHD	3.07	3.84
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.07
tblVehicleEF	HHD	4.0000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8710e-003	8.8120e-003
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	9.2000e-005	5.0000e-006
tblVehicleEF	HHD	2.7720e-003	1.6900e-004
tblVehicleEF	HHD	0.90	0.45
tblVehicleEF	HHD	5.1000e-005	3.0000e-006
tblVehicleEF	HHD	0.07	0.11
tblVehicleEF	HHD	1.9500e-004	8.9300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.2000e-005	0.00

Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	HHD	9.2000e-005	5.0000e-006
tblVehicleEF	HHD	2.7720e-003	1.6900e-004
tblVehicleEF	HHD	1.03	0.51
tblVehicleEF	HHD	5.1000e-005	3.0000e-006
tblVehicleEF	HHD	0.11	0.14
tblVehicleEF	HHD	1.9500e-004	8.9300e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.42	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.11	0.00
tblVehicleEF	HHD	2.53	5.33
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tblVehicleEF	HHD	1.43	5.5930e-003
tblVehicleEF	HHD	6,940.41	1,091.42
tblVehicleEF	HHD	1,477.34	1,404.21
tblVehicleEF	HHD	4.68	0.05
tblVehicleEF	HHD	28.85	5.84
tblVehicleEF	HHD	2.90	3.63
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.07
tblVehicleEF	HHD	4.0000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8710e-003	8.8120e-003
tblVehicleEF	HHD	0.02	0.06

## Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	1.7900e-004	9.0000e-006
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tblVehicleEF	HHD	1.0100e-004	6.0000e-006
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tblVehicleEF	HHD	2.0100e-004	9.1300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.07	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	1.7900e-004	9.0000e-006
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tblVehicleEF	HHD	1.0100e-004	6.0000e-006
tblVehicleEF	HHD	0.11	0.14
tblVehicleEF	HHD	2.0100e-004	9.1300e-004
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tblVehicleEF	HHD	1.62	0.02
tblVehicleEF	HHD	0.03	4.8900e-003
tblVehicleEF	HHD	0.11	0.00
tblVehicleEF	HHD	4.76	5.65
tblVehicleEF	HHD	0.46	0.43
tblVehicleEF	HHD	1.51	5.8630e-003
tblVehicleEF	HHD	6,023.73	1,087.43
tblVehicleEF	HHD	1,477.34	1,390.01
tblVehicleEF	HHD	4.68	0.05

Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	HHD	26.74	6.15
tblVehicleEF	HHD	3.05	3.78
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.07
tblVehicleEF	HHD	4.0000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8710e-003	8.7740e-003
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	7.4000e-005	5.0000e-006
tblVehicleEF	HHD	2.9910e-003	1.9300e-004
tblVehicleEF	HHD	0.96	0.42
tblVehicleEF	HHD	4.5000e-005	3.0000e-006
tblVehicleEF	HHD	0.07	0.10
tblVehicleEF	HHD	2.0800e-004	9.4500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.2000e-005	0.00
tblVehicleEF	HHD	7.4000e-005	5.0000e-006
tblVehicleEF	HHD	2.9910e-003	1.9300e-004
tblVehicleEF	HHD	1.11	0.48
tblVehicleEF	HHD	4.5000e-005	3.0000e-006
tblVehicleEF	HHD	0.11	0.12

Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	HHD	2.0800e-004	9.4500e-004
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tblVehicleEF	LDA	4.4730e-003	2.7930e-003
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tblVehicleEF	LDA	0.62	0.71
tblVehicleEF	LDA	1.29	2.21
tblVehicleEF	LDA	266.01	270.87
tblVehicleEF	LDA	60.91	56.35
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	1.6430e-003	1.5090e-003
tblVehicleEF	LDA	2.2790e-003	1.9900e-003
tblVehicleEF	LDA	1.5150e-003	1.3900e-003
tblVehicleEF	LDA	2.0950e-003	1.8300e-003
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	2.6640e-003	2.6800e-003
tblVehicleEF	LDA	6.3100e-004	5.5800e-004
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.09	0.28

## Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDA	5.0810e-003	3.1460e-003
tblVehicleEF	LDA	5.4700e-003	0.05
tblVehicleEF	LDA	0.76	0.85
tblVehicleEF	LDA	1.14	1.85
tblVehicleEF	LDA	289.77	292.94
tblVehicleEF	LDA	60.91	55.66
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6430e-003	1.5090e-003
tblVehicleEF	LDA	2.2790e-003	1.9900e-003
tblVehicleEF	LDA	1.5150e-003	1.3900e-003
tblVehicleEF	LDA	2.0950e-003	1.8300e-003
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.13	0.12
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	2.9040e-003	2.8980e-003
tblVehicleEF	LDA	6.2800e-004	5.5100e-004
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.13	0.12
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.24
tblVehicleEF	LDA	4.3110e-003	2.7450e-003
tblVehicleEF	LDA	6.4670e-003	0.06



Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDA	0.58	0.68
tblVehicleEF	LDA	1.32	2.19
tblVehicleEF	LDA	259.39	267.14
tblVehicleEF	LDA	60.91	56.32
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6430e-003	1.5090e-003
tblVehicleEF	LDA	2.2790e-003	1.9900e-003
tblVehicleEF	LDA	1.5150e-003	1.3900e-003
tblVehicleEF	LDA	2.0950e-003	1.8300e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.09	0.25
tblVehicleEF	LDA	2.5980e-003	2.6430e-003
tblVehicleEF	LDA	6.3200e-004	5.5700e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.10	0.28
tblVehicleEF	LDT1	0.01	8.9240e-003
tblVehicleEF	LDT1	0.02	0.10
tblVehicleEF	LDT1	1.62	1.77
tblVehicleEF	LDT1	3.78	2.55

Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDT1	325.17	321.11
tblVehicleEF	LDT1	74.01	68.76
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	2.6810e-003	2.4860e-003
tblVehicleEF	LDT1	3.8960e-003	3.2220e-003
tblVehicleEF	LDT1	2.4680e-003	2.2880e-003
tblVehicleEF	LDT1	3.5830e-003	2.9620e-003
tblVehicleEF	LDT1	0.22	0.21
tblVehicleEF	LDT1	0.37	0.29
tblVehicleEF	LDT1	0.15	0.14
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.22	0.95
tblVehicleEF	LDT1	0.27	0.51
tblVehicleEF	LDT1	3.2720e-003	3.1780e-003
tblVehicleEF	LDT1	8.0700e-004	6.8000e-004
tblVehicleEF	LDT1	0.22	0.21
tblVehicleEF	LDT1	0.37	0.29
tblVehicleEF	LDT1	0.15	0.14
tblVehicleEF	LDT1	0.05	0.06
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tblVehicleEF	LDT1	0.30	0.56
tblVehicleEF	LDT1	0.02	9.9410e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.95	2.08
tblVehicleEF	LDT1	3.33	2.13
tblVehicleEF	LDT1	353.10	344.18
tblVehicleEF	LDT1	74.01	67.84

Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	2.6810e-003	2.4860e-003
tblVehicleEF	LDT1	3.8960e-003	3.2220e-003
tblVehicleEF	LDT1	2.4680e-003	2.2880e-003
tblVehicleEF	LDT1	3.5830e-003	2.9620e-003
tblVehicleEF	LDT1	0.44	0.40
tblVehicleEF	LDT1	0.46	0.35
tblVehicleEF	LDT1	0.29	0.28
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.23	0.44
tblVehicleEF	LDT1	3.5570e-003	3.4060e-003
tblVehicleEF	LDT1	7.9900e-004	6.7100e-004
tblVehicleEF	LDT1	0.44	0.40
tblVehicleEF	LDT1	0.46	0.35
tblVehicleEF	LDT1	0.29	0.28
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.26	0.48
tblVehicleEF	LDT1	0.01	8.7780e-003
tblVehicleEF	LDT1	0.02	0.10
tblVehicleEF	LDT1	1.52	1.71
tblVehicleEF	LDT1	3.84	2.53
tblVehicleEF	LDT1	316.88	317.20
tblVehicleEF	LDT1	74.01	68.72
tblVehicleEF	LDT1	0.16	0.16
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tblVehicleEF	LDT1	3.8960e-003	3.2220e-003
tblVehicleEF	LDT1	2.4680e-003	2.2880e-003
tblVehicleEF	LDT1	3.5830e-003	2.9620e-003
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tblVehicleEF	LDT1	0.41	0.34
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.25	1.11
tblVehicleEF	LDT1	0.28	0.51
tblVehicleEF	LDT1	3.1880e-003	3.1390e-003
tblVehicleEF	LDT1	8.0800e-004	6.8000e-004
tblVehicleEF	LDT1	0.19	0.22
tblVehicleEF	LDT1	0.41	0.34
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.25	1.11
tblVehicleEF	LDT1	0.30	0.56
tblVehicleEF	LDT2	6.1110e-003	4.5190e-003
tblVehicleEF	LDT2	8.2750e-003	0.08
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tblVehicleEF	LDT2	1.71	2.88
tblVehicleEF	LDT2	366.61	346.07
tblVehicleEF	LDT2	83.75	74.26
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	1.6030e-003	1.5600e-003
tblVehicleEF	LDT2	2.3200e-003	2.0370e-003
tblVehicleEF	LDT2	1.4740e-003	1.4360e-003

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tblVehicleEF	LDT2	2.1330e-003	1.8730e-003
tblVehicleEF	LDT2	0.07	0.10
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	3.6730e-003	3.4240e-003
tblVehicleEF	LDT2	8.6600e-004	7.3500e-004
tblVehicleEF	LDT2	0.07	0.10
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.44
tblVehicleEF	LDT2	0.12	0.40
tblVehicleEF	LDT2	6.9350e-003	5.0670e-003
tblVehicleEF	LDT2	7.1890e-003	0.07
tblVehicleEF	LDT2	1.00	1.22
tblVehicleEF	LDT2	1.51	2.40
tblVehicleEF	LDT2	398.95	368.67
tblVehicleEF	LDT2	83.75	73.33
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.6030e-003	1.5600e-003
tblVehicleEF	LDT2	2.3200e-003	2.0370e-003
tblVehicleEF	LDT2	1.4740e-003	1.4360e-003
tblVehicleEF	LDT2	2.1330e-003	1.8730e-003
tblVehicleEF	LDT2	0.14	0.18

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tblVehicleEF	LDT2	0.15	0.16
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LDT2	3.9980e-003	3.6480e-003
tblVehicleEF	LDT2	8.6300e-004	7.2600e-004
tblVehicleEF	LDT2	0.14	0.18
tblVehicleEF	LDT2	0.15	0.16
tblVehicleEF	LDT2	0.11	0.15
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.43
tblVehicleEF	LDT2	0.11	0.35
tblVehicleEF	LDT2	5.8750e-003	4.4430e-003
tblVehicleEF	LDT2	8.5090e-003	0.08
tblVehicleEF	LDT2	0.76	0.99
tblVehicleEF	LDT2	1.74	2.86
tblVehicleEF	LDT2	356.95	342.25
tblVehicleEF	LDT2	83.75	74.23
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.6030e-003	1.5600e-003
tblVehicleEF	LDT2	2.3200e-003	2.0370e-003
tblVehicleEF	LDT2	1.4740e-003	1.4360e-003
tblVehicleEF	LDT2	2.1330e-003	1.8730e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08

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tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.08	0.51
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	3.5750e-003	3.3860e-003
tblVehicleEF	LDT2	8.6700e-004	7.3500e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.51
tblVehicleEF	LDT2	0.13	0.40
tblVehicleEF	LHD1	5.6490e-003	4.8670e-003
tblVehicleEF	LHD1	0.01	5.8570e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.03	0.81
tblVehicleEF	LHD1	2.54	0.98
tblVehicleEF	LHD1	9.27	9.54
tblVehicleEF	LHD1	612.92	640.47
tblVehicleEF	LHD1	30.90	10.51
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.35	1.83
tblVehicleEF	LHD1	9.6900e-004	9.8900e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2500e-004	2.4800e-004
tblVehicleEF	LHD1	9.2700e-004	9.4600e-004

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tblVehicleEF	LHD1	2.5280e-003	2.5110e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.5100e-004	2.2800e-004
tblVehicleEF	LHD1	3.9460e-003	2.7760e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9130e-003	1.4100e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.31	0.50
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.3000e-005	9.2000e-005
tblVehicleEF	LHD1	6.0140e-003	6.2270e-003
tblVehicleEF	LHD1	3.5800e-004	1.0400e-004
tblVehicleEF	LHD1	3.9460e-003	2.7760e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9130e-003	1.4100e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.31	0.50
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	5.6490e-003	4.8810e-003
tblVehicleEF	LHD1	0.01	5.9510e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.05	0.82
tblVehicleEF	LHD1	2.42	0.93
tblVehicleEF	LHD1	9.27	9.54



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tblVehicleEF	LHD1	612.92	640.49
tblVehicleEF	LHD1	30.90	10.41
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.21	1.72
tblVehicleEF	LHD1	9.6900e-004	9.8900e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2500e-004	2.4800e-004
tblVehicleEF	LHD1	9.2700e-004	9.4600e-004
tblVehicleEF	LHD1	2.5280e-003	2.5110e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.5100e-004	2.2800e-004
tblVehicleEF	LHD1	7.3960e-003	4.9530e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.6890e-003	2.7430e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.31	0.50
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.3000e-005	9.2000e-005
tblVehicleEF	LHD1	6.0140e-003	6.2270e-003
tblVehicleEF	LHD1	3.5500e-004	1.0300e-004
tblVehicleEF	LHD1	7.3960e-003	4.9530e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.6890e-003	2.7430e-003
tblVehicleEF	LHD1	0.10	0.08

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tblVehicleEF	LHD1	0.31	0.50
tblVehicleEF	LHD1	0.29	0.09
tblVehicleEF	LHD1	5.6490e-003	4.8700e-003
tblVehicleEF	LHD1	0.01	5.8660e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	1.03	0.80
tblVehicleEF	LHD1	2.54	0.97
tblVehicleEF	LHD1	9.27	9.54
tblVehicleEF	LHD1	612.92	640.47
tblVehicleEF	LHD1	30.90	10.49
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.32	1.80
tblVehicleEF	LHD1	9.6900e-004	9.8900e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.2500e-004	2.4800e-004
tblVehicleEF	LHD1	9.2700e-004	9.4600e-004
tblVehicleEF	LHD1	2.5280e-003	2.5110e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.5100e-004	2.2800e-004
tblVehicleEF	LHD1	3.5540e-003	2.9670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7480e-003	1.4870e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.33	0.54

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tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	9.3000e-005	9.2000e-005
tblVehicleEF	LHD1	6.0140e-003	6.2270e-003
tblVehicleEF	LHD1	3.5800e-004	1.0400e-004
tblVehicleEF	LHD1	3.5540e-003	2.9670e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7480e-003	1.4870e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.33	0.54
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD2	3.8330e-003	2.9660e-003
tblVehicleEF	LHD2	5.1000e-003	4.0970e-003
tblVehicleEF	LHD2	9.1950e-003	8.6540e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.56
tblVehicleEF	LHD2	1.23	0.53
tblVehicleEF	LHD2	14.53	15.23
tblVehicleEF	LHD2	609.83	634.08
tblVehicleEF	LHD2	23.90	6.70
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.94	2.00
tblVehicleEF	LHD2	1.3510e-003	1.4960e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.1000e-004	1.1100e-004
tblVehicleEF	LHD2	1.2930e-003	1.4310e-003

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tblVehicleEF	LHD2	2.6930e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7700e-004	1.0200e-004
tblVehicleEF	LHD2	1.5990e-003	1.2810e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.1500e-004	6.6500e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.23
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	1.4200e-004	1.4500e-004
tblVehicleEF	LHD2	5.9300e-003	6.1000e-003
tblVehicleEF	LHD2	2.6200e-004	6.6000e-005
tblVehicleEF	LHD2	1.5990e-003	1.2810e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.1500e-004	6.6500e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.23
tblVehicleEF	LHD2	0.14	0.05
tblVehicleEF	LHD2	3.8330e-003	2.9740e-003
tblVehicleEF	LHD2	5.1600e-003	4.1300e-003
tblVehicleEF	LHD2	8.8690e-003	8.3230e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.57
tblVehicleEF	LHD2	1.18	0.50
tblVehicleEF	LHD2	14.53	15.23

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tblVehicleEF	LHD2	609.83	634.09
tblVehicleEF	LHD2	23.90	6.65
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.83	1.89
tblVehicleEF	LHD2	1.3510e-003	1.4960e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.1000e-004	1.1100e-004
tblVehicleEF	LHD2	1.2930e-003	1.4310e-003
tblVehicleEF	LHD2	2.6930e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7700e-004	1.0200e-004
tblVehicleEF	LHD2	3.0260e-003	2.2870e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.5540e-003	1.2930e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.09	0.23
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	1.4200e-004	1.4500e-004
tblVehicleEF	LHD2	5.9300e-003	6.1000e-003
tblVehicleEF	LHD2	2.6100e-004	6.6000e-005
tblVehicleEF	LHD2	3.0260e-003	2.2870e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5540e-003	1.2930e-003
tblVehicleEF	LHD2	0.07	0.08

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tblVehicleEF	LHD2	0.09	0.23
tblVehicleEF	LHD2	0.13	0.04
tblVehicleEF	LHD2	3.8330e-003	2.9680e-003
tblVehicleEF	LHD2	5.0860e-003	4.1010e-003
tblVehicleEF	LHD2	9.2490e-003	8.5930e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.56
tblVehicleEF	LHD2	1.24	0.52
tblVehicleEF	LHD2	14.53	15.23
tblVehicleEF	LHD2	609.83	634.08
tblVehicleEF	LHD2	23.90	6.69
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.92	1.97
tblVehicleEF	LHD2	1.3510e-003	1.4960e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.1000e-004	1.1100e-004
tblVehicleEF	LHD2	1.2930e-003	1.4310e-003
tblVehicleEF	LHD2	2.6930e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7700e-004	1.0200e-004
tblVehicleEF	LHD2	1.2860e-003	1.3430e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.9100e-004	6.9400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.25

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tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	1.4200e-004	1.4500e-004
tblVehicleEF	LHD2	5.9300e-003	6.1000e-003
tblVehicleEF	LHD2	2.6200e-004	6.6000e-005
tblVehicleEF	LHD2	1.2860e-003	1.3430e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.9100e-004	6.9400e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.10	0.25
tblVehicleEF	LHD2	0.14	0.05
tblVehicleEF	MCY	0.41	0.32
tblVehicleEF	MCY	0.15	0.25
tblVehicleEF	MCY	19.93	19.76
tblVehicleEF	MCY	9.66	8.58
tblVehicleEF	MCY	164.88	207.31
tblVehicleEF	MCY	46.70	61.27
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	1.7160e-003	1.6670e-003
tblVehicleEF	MCY	3.4600e-003	2.9080e-003
tblVehicleEF	MCY	1.6070e-003	1.5620e-003
tblVehicleEF	MCY	3.2650e-003	2.7430e-003
tblVehicleEF	MCY	1.68	1.41
tblVehicleEF	MCY	0.86	0.79
tblVehicleEF	MCY	0.93	0.75
tblVehicleEF	MCY	2.17	2.17
tblVehicleEF	MCY	0.58	1.92

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tblVehicleEF	MCY	2.09	1.86
tblVehicleEF	MCY	2.0370e-003	2.0520e-003
tblVehicleEF	MCY	6.8600e-004	6.0600e-004
tblVehicleEF	MCY	1.68	1.41
tblVehicleEF	MCY	0.86	0.79
tblVehicleEF	MCY	0.93	0.75
tblVehicleEF	MCY	2.66	2.66
tblVehicleEF	MCY	0.58	1.92
tblVehicleEF	MCY	2.27	2.02
tblVehicleEF	MCY	0.41	0.31
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.66	19.72
tblVehicleEF	MCY	9.11	7.89
tblVehicleEF	MCY	164.88	207.06
tblVehicleEF	MCY	46.70	59.40
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	1.7160e-003	1.6670e-003
tblVehicleEF	MCY	3.4600e-003	2.9080e-003
tblVehicleEF	MCY	1.6070e-003	1.5620e-003
tblVehicleEF	MCY	3.2650e-003	2.7430e-003
tblVehicleEF	MCY	3.35	2.71
tblVehicleEF	MCY	1.25	1.08
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.15	2.12
tblVehicleEF	MCY	0.58	1.89
tblVehicleEF	MCY	1.87	1.63
tblVehicleEF	MCY	2.0470e-003	2.0490e-003



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tblVehicleEF	MCY	6.7100e-004	5.8800e-004
tblVehicleEF	MCY	3.35	2.71
tblVehicleEF	MCY	1.25	1.08
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.63	2.60
tblVehicleEF	MCY	0.58	1.89
tblVehicleEF	MCY	2.03	1.77
tblVehicleEF	MCY	0.41	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.43	19.16
tblVehicleEF	MCY	9.60	8.36
tblVehicleEF	MCY	164.88	206.28
tblVehicleEF	MCY	46.70	60.77
tblVehicleEF	MCY	1.13	1.10
tblVehicleEF	MCY	1.7160e-003	1.6670e-003
tblVehicleEF	MCY	3.4600e-003	2.9080e-003
tblVehicleEF	MCY	1.6070e-003	1.5620e-003
tblVehicleEF	MCY	3.2650e-003	2.7430e-003
tblVehicleEF	MCY	1.60	1.62
tblVehicleEF	MCY	1.06	1.05
tblVehicleEF	MCY	0.75	0.76
tblVehicleEF	MCY	2.17	2.15
tblVehicleEF	MCY	0.66	2.19
tblVehicleEF	MCY	2.10	1.82
tblVehicleEF	MCY	2.0290e-003	2.0410e-003
tblVehicleEF	MCY	6.8600e-004	6.0100e-004
tblVehicleEF	MCY	1.60	1.62

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tblVehicleEF	MCY	1.06	1.05
tblVehicleEF	MCY	0.75	0.76
tblVehicleEF	MCY	2.66	2.63
tblVehicleEF	MCY	0.66	2.19
tblVehicleEF	MCY	2.28	1.98
tblVehicleEF	MDV	0.01	6.2680e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.58	1.28
tblVehicleEF	MDV	3.47	3.47
tblVehicleEF	MDV	501.88	430.06
tblVehicleEF	MDV	112.78	91.68
tblVehicleEF	MDV	0.19	0.13
tblVehicleEF	MDV	1.7360e-003	1.6260e-003
tblVehicleEF	MDV	2.5110e-003	2.1320e-003
tblVehicleEF	MDV	1.6010e-003	1.5010e-003
tblVehicleEF	MDV	2.3110e-003	1.9620e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MDV	5.0330e-003	4.2520e-003
tblVehicleEF	MDV	1.1890e-003	9.0700e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.09	0.10

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tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.49
tblVehicleEF	MDV	0.30	0.54
tblVehicleEF	MDV	0.02	6.9690e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.91	1.51
tblVehicleEF	MDV	3.08	2.90
tblVehicleEF	MDV	544.80	454.20
tblVehicleEF	MDV	112.78	90.55
tblVehicleEF	MDV	0.18	0.12
tblVehicleEF	MDV	1.7360e-003	1.6260e-003
tblVehicleEF	MDV	2.5110e-003	2.1320e-003
tblVehicleEF	MDV	1.6010e-003	1.5010e-003
tblVehicleEF	MDV	2.3110e-003	1.9620e-003
tblVehicleEF	MDV	0.22	0.21
tblVehicleEF	MDV	0.24	0.19
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.24	0.42
tblVehicleEF	MDV	5.4670e-003	4.4910e-003
tblVehicleEF	MDV	1.1820e-003	8.9600e-004
tblVehicleEF	MDV	0.22	0.21
tblVehicleEF	MDV	0.24	0.19
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.06	0.04
tblVehicleEF	MDV	0.11	0.48

Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MDV	0.26	0.46
tblVehicleEF	MDV	0.01	6.1580e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.48	1.23
tblVehicleEF	MDV	3.54	3.44
tblVehicleEF	MDV	489.12	425.98
tblVehicleEF	MDV	112.78	91.64
tblVehicleEF	MDV	0.18	0.13
tblVehicleEF	MDV	1.7360e-003	1.6260e-003
tblVehicleEF	MDV	2.5110e-003	2.1320e-003
tblVehicleEF	MDV	1.6010e-003	1.5010e-003
tblVehicleEF	MDV	2.3110e-003	1.9620e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.28	0.49
tblVehicleEF	MDV	4.9040e-003	4.2120e-003
tblVehicleEF	MDV	1.1910e-003	9.0700e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.22	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.13	0.56
tblVehicleEF	MDV	0.31	0.54
tblVehicleEF	MH	0.03	3.4320e-003

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tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.14	0.36
tblVehicleEF	MH	6.37	0.00
tblVehicleEF	MH	1,005.77	948.91
tblVehicleEF	MH	58.82	0.00
tblVehicleEF	MH	1.76	4.66
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.05	0.15
tblVehicleEF	MH	1.2480e-003	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1520e-003	0.00
tblVehicleEF	MH	1.64	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.11	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	9.9900e-003	8.9710e-003
tblVehicleEF	MH	7.0000e-004	0.00
tblVehicleEF	MH	1.64	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.56	0.00
tblVehicleEF	MH	0.15	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.03	3.4320e-003

## Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.24	0.36
tblVehicleEF	MH	5.95	0.00
tblVehicleEF	MH	1,005.77	948.91
tblVehicleEF	MH	58.82	0.00
tblVehicleEF	MH	1.63	4.40
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.05	0.15
tblVehicleEF	MH	1.2480e-003	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1520e-003	0.00
tblVehicleEF	MH	3.01	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.11	0.00
tblVehicleEF	MH	0.11	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	9.9910e-003	8.9710e-003
tblVehicleEF	MH	6.9300e-004	0.00
tblVehicleEF	MH	3.01	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.11	0.00
tblVehicleEF	MH	0.15	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.03	3.4320e-003

## Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.12	0.36
tblVehicleEF	MH	6.40	0.00
tblVehicleEF	MH	1,005.77	948.91
tblVehicleEF	MH	58.82	0.00
tblVehicleEF	MH	1.74	4.59
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.05	0.15
tblVehicleEF	MH	1.2480e-003	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.1520e-003	0.00
tblVehicleEF	MH	1.67	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.55	0.00
tblVehicleEF	MH	0.11	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	9.9890e-003	8.9710e-003
tblVehicleEF	MH	7.0000e-004	0.00
tblVehicleEF	MH	1.67	0.00
tblVehicleEF	MH	0.11	0.00
tblVehicleEF	MH	0.55	0.00
tblVehicleEF	MH	0.15	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MHD	0.02	2.7420e-003

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tblVehicleEF	MHD	6.1240e-003	7.1090e-003
tblVehicleEF	MHD	0.06	7.3100e-003
tblVehicleEF	MHD	0.43	0.32
tblVehicleEF	MHD	0.47	0.63
tblVehicleEF	MHD	6.54	0.89
tblVehicleEF	MHD	156.54	74.92
tblVehicleEF	MHD	1,067.94	996.67
tblVehicleEF	MHD	55.18	7.09
tblVehicleEF	MHD	1.06	0.76
tblVehicleEF	MHD	1.70	3.03
tblVehicleEF	MHD	3.7720e-003	2.9760e-003
tblVehicleEF	MHD	0.06	0.10
tblVehicleEF	MHD	8.1800e-004	8.6000e-005
tblVehicleEF	MHD	3.6080e-003	2.8470e-003
tblVehicleEF	MHD	0.05	0.10
tblVehicleEF	MHD	7.5200e-004	8.0000e-005
tblVehicleEF	MHD	1.8750e-003	5.2000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	9.0500e-004	2.6800e-004
tblVehicleEF	MHD	0.07	0.14
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.40	0.04
tblVehicleEF	MHD	1.5050e-003	7.1000e-004
tblVehicleEF	MHD	0.01	9.4650e-003
tblVehicleEF	MHD	6.6700e-004	7.0000e-005
tblVehicleEF	MHD	1.8750e-003	5.2000e-004



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tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	9.0500e-004	2.6800e-004
tblVehicleEF	MHD	0.08	0.16
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.44	0.04
tblVehicleEF	MHD	0.02	2.6020e-003
tblVehicleEF	MHD	6.1890e-003	7.1350e-003
tblVehicleEF	MHD	0.06	7.0200e-003
tblVehicleEF	MHD	0.31	0.26
tblVehicleEF	MHD	0.47	0.63
tblVehicleEF	MHD	6.24	0.84
tblVehicleEF	MHD	165.81	76.81
tblVehicleEF	MHD	1,067.94	996.67
tblVehicleEF	MHD	55.18	7.00
tblVehicleEF	MHD	1.10	0.77
tblVehicleEF	MHD	1.60	2.86
tblVehicleEF	MHD	3.1790e-003	2.5110e-003
tblVehicleEF	MHD	0.06	0.10
tblVehicleEF	MHD	8.1800e-004	8.6000e-005
tblVehicleEF	MHD	3.0420e-003	2.4020e-003
tblVehicleEF	MHD	0.05	0.10
tblVehicleEF	MHD	7.5200e-004	8.0000e-005
tblVehicleEF	MHD	3.6340e-003	9.4200e-004
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.7950e-003	5.4000e-004

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tblVehicleEF	MHD	0.07	0.14
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.38	0.04
tblVehicleEF	MHD	1.5920e-003	7.2800e-004
tblVehicleEF	MHD	0.01	9.4650e-003
tblVehicleEF	MHD	6.6100e-004	6.9000e-005
tblVehicleEF	MHD	3.6340e-003	9.4200e-004
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	1.7950e-003	5.4000e-004
tblVehicleEF	MHD	0.08	0.16
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.42	0.04
tblVehicleEF	MHD	0.02	2.9470e-003
tblVehicleEF	MHD	6.0850e-003	7.1100e-003
tblVehicleEF	MHD	0.06	7.2440e-003
tblVehicleEF	MHD	0.60	0.40
tblVehicleEF	MHD	0.47	0.63
tblVehicleEF	MHD	6.63	0.88
tblVehicleEF	MHD	143.73	72.32
tblVehicleEF	MHD	1,067.94	996.67
tblVehicleEF	MHD	55.18	7.07
tblVehicleEF	MHD	1.01	0.74
tblVehicleEF	MHD	1.68	2.98
tblVehicleEF	MHD	4.5890e-003	3.6170e-003
tblVehicleEF	MHD	0.06	0.10
tblVehicleEF	MHD	8.1800e-004	8.6000e-005

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tblVehicleEF	MHD	4.3910e-003	3.4610e-003
tblVehicleEF	MHD	0.05	0.10
tblVehicleEF	MHD	7.5200e-004	8.0000e-005
tblVehicleEF	MHD	1.4650e-003	5.6500e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	7.2400e-004	2.8600e-004
tblVehicleEF	MHD	0.07	0.14
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.40	0.04
tblVehicleEF	MHD	1.3840e-003	6.8500e-004
tblVehicleEF	MHD	0.01	9.4650e-003
tblVehicleEF	MHD	6.6800e-004	7.0000e-005
tblVehicleEF	MHD	1.4650e-003	5.6500e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	7.2400e-004	2.8600e-004
tblVehicleEF	MHD	0.08	0.16
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.44	0.04
tblVehicleEF	OBUS	0.01	8.9420e-003
tblVehicleEF	OBUS	9.4560e-003	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.48
tblVehicleEF	OBUS	0.63	1.34
tblVehicleEF	OBUS	6.57	2.88
tblVehicleEF	OBUS	74.57	69.58

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tblVehicleEF	OBUS	1,103.17	1,428.61
tblVehicleEF	OBUS	70.73	22.18
tblVehicleEF	OBUS	0.39	0.48
tblVehicleEF	OBUS	1.35	2.46
tblVehicleEF	OBUS	1.7700e-004	2.3590e-003
tblVehicleEF	OBUS	7.1510e-003	0.06
tblVehicleEF	OBUS	8.2800e-004	2.2300e-004
tblVehicleEF	OBUS	1.6900e-004	2.2570e-003
tblVehicleEF	OBUS	6.8270e-003	0.06
tblVehicleEF	OBUS	7.6200e-004	2.0600e-004
tblVehicleEF	OBUS	2.2350e-003	2.6690e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	9.4600e-004	1.1510e-003
tblVehicleEF	OBUS	0.04	0.13
tblVehicleEF	OBUS	0.05	0.28
tblVehicleEF	OBUS	0.41	0.14
tblVehicleEF	OBUS	7.2400e-004	6.6400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2300e-004	2.1900e-004
tblVehicleEF	OBUS	2.2350e-003	2.6690e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.4600e-004	1.1510e-003
tblVehicleEF	OBUS	0.06	0.16
tblVehicleEF	OBUS	0.05	0.28
tblVehicleEF	OBUS	0.45	0.15

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tblVehicleEF	OBUS	0.01	8.9520e-003
tblVehicleEF	OBUS	9.6420e-003	0.01
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.46
tblVehicleEF	OBUS	0.65	1.36
tblVehicleEF	OBUS	6.15	2.67
tblVehicleEF	OBUS	77.97	70.42
tblVehicleEF	OBUS	1,103.17	1,428.65
tblVehicleEF	OBUS	70.73	21.83
tblVehicleEF	OBUS	0.40	0.48
tblVehicleEF	OBUS	1.26	2.30
tblVehicleEF	OBUS	1.4900e-004	1.9920e-003
tblVehicleEF	OBUS	7.1510e-003	0.06
tblVehicleEF	OBUS	8.2800e-004	2.2300e-004
tblVehicleEF	OBUS	1.4300e-004	1.9050e-003
tblVehicleEF	OBUS	6.8270e-003	0.06
tblVehicleEF	OBUS	7.6200e-004	2.0600e-004
tblVehicleEF	OBUS	4.1760e-003	4.7160e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.8320e-003	2.2510e-003
tblVehicleEF	OBUS	0.04	0.13
tblVehicleEF	OBUS	0.05	0.28
tblVehicleEF	OBUS	0.39	0.13
tblVehicleEF	OBUS	7.5600e-004	6.7200e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1600e-004	2.1600e-004

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tblVehicleEF	OBUS	4.1760e-003	4.7160e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.8320e-003	2.2510e-003
tblVehicleEF	OBUS	0.06	0.16
tblVehicleEF	OBUS	0.05	0.28
tblVehicleEF	OBUS	0.43	0.15
tblVehicleEF	OBUS	0.01	8.9650e-003
tblVehicleEF	OBUS	9.4220e-003	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.29	0.52
tblVehicleEF	OBUS	0.63	1.34
tblVehicleEF	OBUS	6.63	2.86
tblVehicleEF	OBUS	69.87	68.41
tblVehicleEF	OBUS	1,103.17	1,428.61
tblVehicleEF	OBUS	70.73	22.16
tblVehicleEF	OBUS	0.37	0.47
tblVehicleEF	OBUS	1.34	2.41
tblVehicleEF	OBUS	2.1500e-004	2.8660e-003
tblVehicleEF	OBUS	7.1510e-003	0.06
tblVehicleEF	OBUS	8.2800e-004	2.2300e-004
tblVehicleEF	OBUS	2.0600e-004	2.7420e-003
tblVehicleEF	OBUS	6.8270e-003	0.06
tblVehicleEF	OBUS	7.6200e-004	2.0600e-004
tblVehicleEF	OBUS	1.9540e-003	2.8450e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06

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tblVehicleEF	OBUS	8.7300e-004	1.2350e-003
tblVehicleEF	OBUS	0.04	0.13
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	OBUS	6.7900e-004	6.5300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2400e-004	2.1900e-004
tblVehicleEF	OBUS	1.9540e-003	2.8450e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	8.7300e-004	1.2350e-003
tblVehicleEF	OBUS	0.06	0.16
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.45	0.15
tblVehicleEF	SBUS	0.85	0.09
tblVehicleEF	SBUS	0.01	7.4060e-003
tblVehicleEF	SBUS	0.06	7.9380e-003
tblVehicleEF	SBUS	7.81	3.35
tblVehicleEF	SBUS	0.66	0.61
tblVehicleEF	SBUS	6.73	1.11
tblVehicleEF	SBUS	1,154.91	376.79
tblVehicleEF	SBUS	1,108.94	1,127.22
tblVehicleEF	SBUS	53.24	7.00
tblVehicleEF	SBUS	10.58	3.63
tblVehicleEF	SBUS	4.99	4.99
tblVehicleEF	SBUS	0.01	4.3170e-003
tblVehicleEF	SBUS	0.01	0.01

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tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.4200e-004	4.2000e-005
tblVehicleEF	SBUS	0.01	4.1300e-003
tblVehicleEF	SBUS	2.7000e-003	2.6420e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.0600e-004	3.9000e-005
tblVehicleEF	SBUS	4.5410e-003	1.2790e-003
tblVehicleEF	SBUS	0.03	9.1190e-003
tblVehicleEF	SBUS	0.94	0.41
tblVehicleEF	SBUS	2.0600e-003	6.3500e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.6030e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.4900e-004	6.9000e-005
tblVehicleEF	SBUS	4.5410e-003	1.2790e-003
tblVehicleEF	SBUS	0.03	9.1190e-003
tblVehicleEF	SBUS	1.35	0.59
tblVehicleEF	SBUS	2.0600e-003	6.3500e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.40	0.05
tblVehicleEF	SBUS	0.85	0.09
tblVehicleEF	SBUS	0.01	7.5000e-003
tblVehicleEF	SBUS	0.05	6.6170e-003
tblVehicleEF	SBUS	7.67	3.30



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tblVehicleEF	SBUS	0.67	0.62
tblVehicleEF	SBUS	4.88	0.79
tblVehicleEF	SBUS	1,207.92	387.95
tblVehicleEF	SBUS	1,108.94	1,127.24
tblVehicleEF	SBUS	53.24	6.47
tblVehicleEF	SBUS	10.92	3.73
tblVehicleEF	SBUS	4.69	4.70
tblVehicleEF	SBUS	0.01	3.6450e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.4200e-004	4.2000e-005
tblVehicleEF	SBUS	9.8070e-003	3.4870e-003
tblVehicleEF	SBUS	2.7000e-003	2.6420e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.0600e-004	3.9000e-005
tblVehicleEF	SBUS	8.2250e-003	2.2470e-003
tblVehicleEF	SBUS	0.03	9.5230e-003
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	3.8990e-003	1.1950e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.04
tblVehicleEF	SBUS	0.01	3.7090e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.1800e-004	6.4000e-005
tblVehicleEF	SBUS	8.2250e-003	2.2470e-003
tblVehicleEF	SBUS	0.03	9.5230e-003

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tblVehicleEF	SBUS	1.35	0.58
tblVehicleEF	SBUS	3.8990e-003	1.1950e-003
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.04
tblVehicleEF	SBUS	0.85	0.09
tblVehicleEF	SBUS	0.01	7.4050e-003
tblVehicleEF	SBUS	0.07	8.0800e-003
tblVehicleEF	SBUS	7.99	3.41
tblVehicleEF	SBUS	0.66	0.61
tblVehicleEF	SBUS	7.09	1.13
tblVehicleEF	SBUS	1,081.70	361.38
tblVehicleEF	SBUS	1,108.94	1,127.22
tblVehicleEF	SBUS	53.24	7.04
tblVehicleEF	SBUS	10.11	3.49
tblVehicleEF	SBUS	4.94	4.92
tblVehicleEF	SBUS	0.01	5.2440e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.4200e-004	4.2000e-005
tblVehicleEF	SBUS	0.01	5.0170e-003
tblVehicleEF	SBUS	2.7000e-003	2.6420e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.0600e-004	3.9000e-005
tblVehicleEF	SBUS	4.1410e-003	1.2310e-003
tblVehicleEF	SBUS	0.03	9.3800e-003
tblVehicleEF	SBUS	0.94	0.41

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tblVehicleEF	SBUS	1.9980e-003	6.6000e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.38	0.05
tblVehicleEF	SBUS	0.01	3.4570e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5500e-004	7.0000e-005
tblVehicleEF	SBUS	4.1410e-003	1.2310e-003
tblVehicleEF	SBUS	0.03	9.3800e-003
tblVehicleEF	SBUS	1.35	0.59
tblVehicleEF	SBUS	1.9980e-003	6.6000e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.42	0.05
tblVehicleEF	UBUS	1.60	3.04
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	10.35	23.58
tblVehicleEF	UBUS	16.43	1.95
tblVehicleEF	UBUS	1,836.48	1,641.57
tblVehicleEF	UBUS	155.92	23.42
tblVehicleEF	UBUS	5.46	0.30
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.1590e-003
tblVehicleEF	UBUS	1.6630e-003	2.0900e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003

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tblVehicleEF	UBUS	0.06	2.0460e-003
tblVehicleEF	UBUS	1.5380e-003	1.9200e-004
tblVehicleEF	UBUS	0.01	2.0160e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	5.4970e-003	7.7200e-004
tblVehicleEF	UBUS	0.64	0.05
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.28	0.09
tblVehicleEF	UBUS	0.01	6.3860e-003
tblVehicleEF	UBUS	1.8570e-003	2.3200e-004
tblVehicleEF	UBUS	0.01	2.0160e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	5.4970e-003	7.7200e-004
tblVehicleEF	UBUS	2.30	3.11
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.40	0.10
tblVehicleEF	UBUS	1.61	3.04
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	10.64	23.58
tblVehicleEF	UBUS	14.18	1.66
tblVehicleEF	UBUS	1,836.48	1,641.57
tblVehicleEF	UBUS	155.92	22.93
tblVehicleEF	UBUS	5.09	0.29
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.1590e-003
tblVehicleEF	UBUS	1.6630e-003	2.0900e-004

Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.06	2.0460e-003
tblVehicleEF	UBUS	1.5380e-003	1.9200e-004
tblVehicleEF	UBUS	0.02	3.6260e-003
tblVehicleEF	UBUS	0.17	0.01
tblVehicleEF	UBUS	0.01	1.6240e-003
tblVehicleEF	UBUS	0.65	0.05
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.17	0.08
tblVehicleEF	UBUS	0.01	6.3870e-003
tblVehicleEF	UBUS	1.8170e-003	2.2700e-004
tblVehicleEF	UBUS	0.02	3.6260e-003
tblVehicleEF	UBUS	0.17	0.01
tblVehicleEF	UBUS	0.01	1.6240e-003
tblVehicleEF	UBUS	2.31	3.11
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	1.28	0.09
tblVehicleEF	UBUS	1.60	3.04
tblVehicleEF	UBUS	0.10	0.02
tblVehicleEF	UBUS	10.37	23.58
tblVehicleEF	UBUS	16.61	1.93
tblVehicleEF	UBUS	1,836.48	1,641.57
tblVehicleEF	UBUS	155.92	23.40
tblVehicleEF	UBUS	5.42	0.29
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02

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tblVehicleEF	UBUS	0.06	2.1590e-003
tblVehicleEF	UBUS	1.6630e-003	2.0900e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.06	2.0460e-003
tblVehicleEF	UBUS	1.5380e-003	1.9200e-004
tblVehicleEF	UBUS	0.01	2.1860e-003
tblVehicleEF	UBUS	0.16	0.01
tblVehicleEF	UBUS	4.7660e-003	8.2500e-004
tblVehicleEF	UBUS	0.64	0.05
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.29	0.09
tblVehicleEF	UBUS	0.01	6.3860e-003
tblVehicleEF	UBUS	1.8600e-003	2.3200e-004
tblVehicleEF	UBUS	0.01	2.1860e-003
tblVehicleEF	UBUS	0.16	0.01
tblVehicleEF	UBUS	4.7660e-003	8.2500e-004
tblVehicleEF	UBUS	2.30	3.11
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.42	0.10

## 2.0 Emissions Summary

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Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**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	0.1017	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1017</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</b>



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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1017	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1017</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Excavation	Grading	10/5/2020	11/30/2020	5	41	

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

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

**Acres of Paving: 29.7**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Excavation	Excavators	0	8.00	158	0.38
Excavation	Graders	0	8.00	187	0.41
Excavation	Rubber Tired Dozers	0	8.00	247	0.40
Excavation	Scrapers	5	8.00	367	0.48
Excavation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Excavation	5	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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**3.2 Excavation - 2020**

**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					0.1201	0.0000	0.1201	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1018	1.2046	0.7645	1.5500e-003		0.0470	0.0470		0.0432	0.0432	0.0000	136.4125	136.4125	0.0441	0.0000	137.5155
<b>Total</b>	<b>0.1018</b>	<b>1.2046</b>	<b>0.7645</b>	<b>1.5500e-003</b>	<b>0.1201</b>	<b>0.0470</b>	<b>0.1671</b>	<b>0.0135</b>	<b>0.0432</b>	<b>0.0567</b>	<b>0.0000</b>	<b>136.4125</b>	<b>136.4125</b>	<b>0.0441</b>	<b>0.0000</b>	<b>137.5155</b>

**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	1.8800e-003	1.3200e-003	0.0141	4.0000e-005	4.5100e-003	3.0000e-005	4.5300e-003	1.2000e-003	3.0000e-005	1.2200e-003	0.0000	3.7703	3.7703	9.0000e-005	0.0000	3.7727
<b>Total</b>	<b>1.8800e-003</b>	<b>1.3200e-003</b>	<b>0.0141</b>	<b>4.0000e-005</b>	<b>4.5100e-003</b>	<b>3.0000e-005</b>	<b>4.5300e-003</b>	<b>1.2000e-003</b>	<b>3.0000e-005</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>3.7703</b>	<b>3.7703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.7727</b>

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**3.2 Excavation - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0468	0.0000	0.0468	5.2500e-003	0.0000	5.2500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0382	0.7388	0.8280	1.5500e-003		0.0280	0.0280		0.0280	0.0280	0.0000	136.4123	136.4123	0.0441	0.0000	137.5153
<b>Total</b>	<b>0.0382</b>	<b>0.7388</b>	<b>0.8280</b>	<b>1.5500e-003</b>	<b>0.0468</b>	<b>0.0280</b>	<b>0.0749</b>	<b>5.2500e-003</b>	<b>0.0280</b>	<b>0.0333</b>	<b>0.0000</b>	<b>136.4123</b>	<b>136.4123</b>	<b>0.0441</b>	<b>0.0000</b>	<b>137.5153</b>

**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	1.8800e-003	1.3200e-003	0.0141	4.0000e-005	4.5100e-003	3.0000e-005	4.5300e-003	1.2000e-003	3.0000e-005	1.2200e-003	0.0000	3.7703	3.7703	9.0000e-005	0.0000	3.7727
<b>Total</b>	<b>1.8800e-003</b>	<b>1.3200e-003</b>	<b>0.0141</b>	<b>4.0000e-005</b>	<b>4.5100e-003</b>	<b>3.0000e-005</b>	<b>4.5300e-003</b>	<b>1.2000e-003</b>	<b>3.0000e-005</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>3.7703</b>	<b>3.7703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.7727</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.538064	0.038449	0.184390	0.122109	0.017402	0.005339	0.017250	0.067711	0.001365	0.001213	0.004629	0.000959	0.001120

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - 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	0.1017	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
Unmitigated	0.1017	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0836					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
<b>Total</b>	<b>0.1017</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</b>

Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - 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	0.0180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0836					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
<b>Total</b>	<b>0.1017</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - 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			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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

Perris Valley Storm Drain - Channel Excavation (Construction - Mitigated) - Riverside-South Coast County, Annual

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

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

### Boilers

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

### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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**APPENDIX 4.2:**

**CALEEMOD PVSD CHANNEL IMPROVEMENTS – PVSD CHANNEL CONSTRUCTION ANNUAL  
EMISSIONS MODEL OUTPUTS**



Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

**Perris Valley Storm Drain (Construction - Mitigated)**  
**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	29.70	Acre	29.70	1,293,732.00	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>	2021
<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**

Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

Project Characteristics -

Land Use -

Construction Phase - Construction Schedule approved by the Project Applicant

Off-road Equipment - Construction Equipment based on consultation with Project Applicant

Off-road Equipment - Construction Equipment based on consultation with Project Applicant

Off-road Equipment - Construction Equipment based on consultation with Project Applicant

Off-road Equipment - Construction Equipment based on consultation with Project Applicant

Off-road Equipment - Construction Equipment based on consultation with Project Applicant

Off-road Equipment - Construction Equipment based on consultation with Project Applicant

Grading - For purposes of analysis, total acres graded per day is based on the equipment specific grading rates (CalEEMod Appendix A) and the equipment list.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Construction Off-road Equipment Mitigation - MM Air 3 and MM Air 6

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	9.00
tblConstructionPhase	NumDays	45.00	40.00
tblConstructionPhase	NumDays	440.00	190.00
tblConstructionPhase	NumDays	45.00	35.00
tblConstructionPhase	NumDays	35.00	16.00
tblGrading	AcresOfGrading	4.50	9.00

Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblVehicleEF	HHD	1.43	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.28	5.70
tblVehicleEF	HHD	0.46	0.43
tblVehicleEF	HHD	1.46	5.1290e-003
tblVehicleEF	HHD	6,485.38	1,098.23

Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	HHD	1,461.92	1,379.84
tblVehicleEF	HHD	4.62	0.04
tblVehicleEF	HHD	26.41	5.91
tblVehicleEF	HHD	2.69	3.40
tblVehicleEF	HHD	0.01	8.1210e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.06
tblVehicleEF	HHD	3.8000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	7.7690e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8100e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	1.0000e-006
tblVehicleEF	HHD	8.4000e-005	4.0000e-006
tblVehicleEF	HHD	2.5800e-003	1.4100e-004
tblVehicleEF	HHD	0.85	0.44
tblVehicleEF	HHD	4.8000e-005	2.0000e-006
tblVehicleEF	HHD	0.07	0.09
tblVehicleEF	HHD	1.8000e-004	7.3300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	8.4000e-005	4.0000e-006
tblVehicleEF	HHD	2.5800e-003	1.4100e-004
tblVehicleEF	HHD	0.97	0.51

## Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	HHD	4.8000e-005	2.0000e-006
tblVehicleEF	HHD	0.11	0.12
tblVehicleEF	HHD	1.8000e-004	7.3300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	1.35	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	2.39	5.56
tblVehicleEF	HHD	0.46	0.43
tblVehicleEF	HHD	1.39	4.8400e-003
tblVehicleEF	HHD	6,867.98	1,095.85
tblVehicleEF	HHD	1,461.92	1,379.84
tblVehicleEF	HHD	4.62	0.04
tblVehicleEF	HHD	27.25	5.75
tblVehicleEF	HHD	2.54	3.21
tblVehicleEF	HHD	0.01	7.5760e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.06
tblVehicleEF	HHD	3.8000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	7.2480e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8100e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	1.0000e-006
tblVehicleEF	HHD	1.6300e-004	7.0000e-006
tblVehicleEF	HHD	2.9560e-003	1.5600e-004

Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	HHD	0.80	0.46
tblVehicleEF	HHD	9.2000e-005	5.0000e-006
tblVehicleEF	HHD	0.07	0.09
tblVehicleEF	HHD	1.8400e-004	7.4800e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	1.6300e-004	7.0000e-006
tblVehicleEF	HHD	2.9560e-003	1.5600e-004
tblVehicleEF	HHD	0.92	0.53
tblVehicleEF	HHD	9.2000e-005	5.0000e-006
tblVehicleEF	HHD	0.11	0.12
tblVehicleEF	HHD	1.8400e-004	7.4800e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	1.54	0.02
tblVehicleEF	HHD	0.03	3.9260e-003
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	4.51	5.86
tblVehicleEF	HHD	0.45	0.36
tblVehicleEF	HHD	1.47	5.0740e-003
tblVehicleEF	HHD	5,957.03	1,095.99
tblVehicleEF	HHD	1,461.92	1,363.80
tblVehicleEF	HHD	4.62	0.04
tblVehicleEF	HHD	25.25	6.10
tblVehicleEF	HHD	2.67	3.34
tblVehicleEF	HHD	0.02	8.8010e-003

## Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.06
tblVehicleEF	HHD	3.8000e-005	1.0000e-006
tblVehicleEF	HHD	0.02	8.4210e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.7660e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	1.0000e-006
tblVehicleEF	HHD	6.7000e-005	4.0000e-006
tblVehicleEF	HHD	2.7490e-003	1.5900e-004
tblVehicleEF	HHD	0.91	0.42
tblVehicleEF	HHD	4.1000e-005	3.0000e-006
tblVehicleEF	HHD	0.07	0.08
tblVehicleEF	HHD	1.9200e-004	7.7700e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	6.7000e-005	4.0000e-006
tblVehicleEF	HHD	2.7490e-003	1.5900e-004
tblVehicleEF	HHD	1.05	0.48
tblVehicleEF	HHD	4.1000e-005	3.0000e-006
tblVehicleEF	HHD	0.11	0.10
tblVehicleEF	HHD	1.9200e-004	7.7700e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	LDA	4.0430e-003	2.4280e-003



## Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDA	5.4670e-003	0.05
tblVehicleEF	LDA	0.58	0.65
tblVehicleEF	LDA	1.16	2.15
tblVehicleEF	LDA	255.91	264.02
tblVehicleEF	LDA	58.81	54.78
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6140e-003	1.4410e-003
tblVehicleEF	LDA	2.2650e-003	1.9140e-003
tblVehicleEF	LDA	1.4880e-003	1.3280e-003
tblVehicleEF	LDA	2.0830e-003	1.7600e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	9.3160e-003
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.5630e-003	2.6120e-003
tblVehicleEF	LDA	6.0800e-004	5.4200e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.5900e-003	2.7360e-003
tblVehicleEF	LDA	4.7470e-003	0.05
tblVehicleEF	LDA	0.71	0.77

## Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDA	1.02	1.80
tblVehicleEF	LDA	278.73	285.50
tblVehicleEF	LDA	58.81	54.12
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6140e-003	1.4410e-003
tblVehicleEF	LDA	2.2650e-003	1.9140e-003
tblVehicleEF	LDA	1.4880e-003	1.3280e-003
tblVehicleEF	LDA	2.0830e-003	1.7600e-003
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	2.7930e-003	2.8240e-003
tblVehicleEF	LDA	6.0500e-004	5.3600e-004
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	3.8980e-003	2.3850e-003
tblVehicleEF	LDA	5.6140e-003	0.05
tblVehicleEF	LDA	0.54	0.62
tblVehicleEF	LDA	1.19	2.13
tblVehicleEF	LDA	249.57	260.40

## Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDA	58.81	54.76
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6140e-003	1.4410e-003
tblVehicleEF	LDA	2.2650e-003	1.9140e-003
tblVehicleEF	LDA	1.4880e-003	1.3280e-003
tblVehicleEF	LDA	2.0830e-003	1.7600e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.8140e-003	9.1470e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.4990e-003	2.5760e-003
tblVehicleEF	LDA	6.0800e-004	5.4200e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.01	7.6990e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.46	1.55
tblVehicleEF	LDT1	3.40	2.46
tblVehicleEF	LDT1	315.98	313.01
tblVehicleEF	LDT1	72.28	66.81
tblVehicleEF	LDT1	0.14	0.14

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tblVehicleEF	LDT1	2.5300e-003	2.2620e-003
tblVehicleEF	LDT1	3.6970e-003	2.9790e-003
tblVehicleEF	LDT1	2.3290e-003	2.0820e-003
tblVehicleEF	LDT1	3.4000e-003	2.7390e-003
tblVehicleEF	LDT1	0.21	0.19
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.24	0.46
tblVehicleEF	LDT1	3.1780e-003	3.0970e-003
tblVehicleEF	LDT1	7.8300e-004	6.6100e-004
tblVehicleEF	LDT1	0.21	0.19
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.26	0.50
tblVehicleEF	LDT1	0.01	8.5810e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.76	1.83
tblVehicleEF	LDT1	2.99	2.05
tblVehicleEF	LDT1	343.19	335.41
tblVehicleEF	LDT1	72.28	65.94
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	2.5300e-003	2.2620e-003
tblVehicleEF	LDT1	3.6970e-003	2.9790e-003

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tblVehicleEF	LDT1	2.3290e-003	2.0820e-003
tblVehicleEF	LDT1	3.4000e-003	2.7390e-003
tblVehicleEF	LDT1	0.41	0.36
tblVehicleEF	LDT1	0.43	0.32
tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	3.4550e-003	3.3190e-003
tblVehicleEF	LDT1	7.7500e-004	6.5300e-004
tblVehicleEF	LDT1	0.41	0.36
tblVehicleEF	LDT1	0.43	0.32
tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.23	0.43
tblVehicleEF	LDT1	0.01	7.5730e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.37	1.50
tblVehicleEF	LDT1	3.46	2.44
tblVehicleEF	LDT1	307.88	309.22
tblVehicleEF	LDT1	72.28	66.78
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	2.5300e-003	2.2620e-003
tblVehicleEF	LDT1	3.6970e-003	2.9790e-003
tblVehicleEF	LDT1	2.3290e-003	2.0820e-003
tblVehicleEF	LDT1	3.4000e-003	2.7390e-003

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tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.39	0.31
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.01
tblVehicleEF	LDT1	0.25	0.46
tblVehicleEF	LDT1	3.0960e-003	3.0600e-003
tblVehicleEF	LDT1	7.8400e-004	6.6100e-004
tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.39	0.31
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.23	1.02
tblVehicleEF	LDT1	0.27	0.50
tblVehicleEF	LDT2	5.6080e-003	4.0030e-003
tblVehicleEF	LDT2	7.2840e-003	0.07
tblVehicleEF	LDT2	0.76	0.93
tblVehicleEF	LDT2	1.53	2.77
tblVehicleEF	LDT2	355.02	334.40
tblVehicleEF	LDT2	81.24	71.60
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	1.6030e-003	1.4810e-003
tblVehicleEF	LDT2	2.3320e-003	1.9490e-003
tblVehicleEF	LDT2	1.4740e-003	1.3630e-003
tblVehicleEF	LDT2	2.1450e-003	1.7930e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.12	0.13

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tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.5560e-003	3.3080e-003
tblVehicleEF	LDT2	8.3800e-004	7.0900e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	6.3630e-003	4.4910e-003
tblVehicleEF	LDT2	6.3270e-003	0.06
tblVehicleEF	LDT2	0.93	1.11
tblVehicleEF	LDT2	1.35	2.31
tblVehicleEF	LDT2	386.34	356.10
tblVehicleEF	LDT2	81.24	70.71
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.6030e-003	1.4810e-003
tblVehicleEF	LDT2	2.3320e-003	1.9490e-003
tblVehicleEF	LDT2	1.4740e-003	1.3630e-003
tblVehicleEF	LDT2	2.1450e-003	1.7930e-003
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02

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tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8710e-003	3.5230e-003
tblVehicleEF	LDT2	8.3500e-004	7.0000e-004
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.3900e-003	3.9360e-003
tblVehicleEF	LDT2	7.4940e-003	0.07
tblVehicleEF	LDT2	0.71	0.90
tblVehicleEF	LDT2	1.57	2.75
tblVehicleEF	LDT2	345.65	330.74
tblVehicleEF	LDT2	81.24	71.57
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	1.6030e-003	1.4810e-003
tblVehicleEF	LDT2	2.3320e-003	1.9490e-003
tblVehicleEF	LDT2	1.4740e-003	1.3630e-003
tblVehicleEF	LDT2	2.1450e-003	1.7930e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.34



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tblVehicleEF	LDT2	3.4620e-003	3.2720e-003
tblVehicleEF	LDT2	8.3900e-004	7.0800e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LHD1	5.4460e-003	4.7710e-003
tblVehicleEF	LHD1	0.01	5.3520e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.96	0.72
tblVehicleEF	LHD1	2.41	0.95
tblVehicleEF	LHD1	9.26	9.49
tblVehicleEF	LHD1	607.95	635.36
tblVehicleEF	LHD1	30.36	10.31
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.21	1.68
tblVehicleEF	LHD1	9.7200e-004	9.9700e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.2900e-004
tblVehicleEF	LHD1	9.3000e-004	9.5400e-004
tblVehicleEF	LHD1	2.5390e-003	2.5130e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1000e-004

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tblVehicleEF	LHD1	3.8710e-003	2.6460e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9010e-003	1.3630e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.48
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.2000e-005
tblVehicleEF	LHD1	5.9620e-003	6.1770e-003
tblVehicleEF	LHD1	3.4900e-004	1.0200e-004
tblVehicleEF	LHD1	3.8710e-003	2.6460e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9010e-003	1.3630e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.31	0.48
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.4460e-003	4.7850e-003
tblVehicleEF	LHD1	0.01	5.4440e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.97	0.74
tblVehicleEF	LHD1	2.29	0.90
tblVehicleEF	LHD1	9.26	9.49
tblVehicleEF	LHD1	607.95	635.38
tblVehicleEF	LHD1	30.36	10.22
tblVehicleEF	LHD1	0.09	0.09

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tblVehicleEF	LHD1	2.08	1.58
tblVehicleEF	LHD1	9.7200e-004	9.9700e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.2900e-004
tblVehicleEF	LHD1	9.3000e-004	9.5400e-004
tblVehicleEF	LHD1	2.5390e-003	2.5130e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1000e-004
tblVehicleEF	LHD1	7.2450e-003	4.7130e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.6380e-003	2.6330e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.32	0.48
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.3000e-005	9.2000e-005
tblVehicleEF	LHD1	5.9620e-003	6.1770e-003
tblVehicleEF	LHD1	3.4700e-004	1.0100e-004
tblVehicleEF	LHD1	7.2450e-003	4.7130e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.6380e-003	2.6330e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.32	0.48
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.4460e-003	4.7740e-003

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tblVehicleEF	LHD1	0.01	5.3630e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.96	0.73
tblVehicleEF	LHD1	2.41	0.94
tblVehicleEF	LHD1	9.26	9.49
tblVehicleEF	LHD1	607.95	635.36
tblVehicleEF	LHD1	30.36	10.30
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.18	1.65
tblVehicleEF	LHD1	9.7200e-004	9.9700e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.2900e-004
tblVehicleEF	LHD1	9.3000e-004	9.5400e-004
tblVehicleEF	LHD1	2.5390e-003	2.5130e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1000e-004
tblVehicleEF	LHD1	3.4570e-003	2.8040e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7350e-003	1.4340e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.52
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.2000e-005
tblVehicleEF	LHD1	5.9620e-003	6.1770e-003

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tblVehicleEF	LHD1	3.4900e-004	1.0200e-004
tblVehicleEF	LHD1	3.4570e-003	2.8040e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7350e-003	1.4340e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.33	0.52
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD2	3.6660e-003	2.9070e-003
tblVehicleEF	LHD2	4.5290e-003	3.7990e-003
tblVehicleEF	LHD2	8.3110e-003	8.1460e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.50	0.52
tblVehicleEF	LHD2	1.15	0.51
tblVehicleEF	LHD2	14.48	15.14
tblVehicleEF	LHD2	604.20	629.09
tblVehicleEF	LHD2	23.56	6.61
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.71	1.83
tblVehicleEF	LHD2	1.3360e-003	1.5020e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.0500e-004
tblVehicleEF	LHD2	1.2780e-003	1.4370e-003
tblVehicleEF	LHD2	2.6970e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	9.7000e-005

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tblVehicleEF	LHD2	1.4980e-003	1.2260e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7800e-004	6.4800e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4400e-004
tblVehicleEF	LHD2	5.8740e-003	6.0520e-003
tblVehicleEF	LHD2	2.5700e-004	6.5000e-005
tblVehicleEF	LHD2	1.4980e-003	1.2260e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7800e-004	6.4800e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.22
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	3.6660e-003	2.9150e-003
tblVehicleEF	LHD2	4.5800e-003	3.8270e-003
tblVehicleEF	LHD2	8.0210e-003	7.8340e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.51	0.52
tblVehicleEF	LHD2	1.10	0.48
tblVehicleEF	LHD2	14.48	15.14
tblVehicleEF	LHD2	604.20	629.09
tblVehicleEF	LHD2	23.56	6.56
tblVehicleEF	LHD2	0.12	0.13

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tblVehicleEF	LHD2	1.62	1.73
tblVehicleEF	LHD2	1.3360e-003	1.5020e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.0500e-004
tblVehicleEF	LHD2	1.2780e-003	1.4370e-003
tblVehicleEF	LHD2	2.6970e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	9.7000e-005
tblVehicleEF	LHD2	2.8320e-003	2.1860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.4720e-003	1.2510e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4400e-004
tblVehicleEF	LHD2	5.8740e-003	6.0520e-003
tblVehicleEF	LHD2	2.5600e-004	6.5000e-005
tblVehicleEF	LHD2	2.8320e-003	2.1860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4720e-003	1.2510e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.22
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	3.6660e-003	2.9080e-003

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tblVehicleEF	LHD2	4.5170e-003	3.8020e-003
tblVehicleEF	LHD2	8.3600e-003	8.0900e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.50	0.52
tblVehicleEF	LHD2	1.16	0.50
tblVehicleEF	LHD2	14.48	15.14
tblVehicleEF	LHD2	604.20	629.09
tblVehicleEF	LHD2	23.56	6.60
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.70	1.81
tblVehicleEF	LHD2	1.3360e-003	1.5020e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.0500e-004
tblVehicleEF	LHD2	1.2780e-003	1.4370e-003
tblVehicleEF	LHD2	2.6970e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	9.7000e-005
tblVehicleEF	LHD2	1.1910e-003	1.2710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6000e-004	6.7400e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.24
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4400e-004
tblVehicleEF	LHD2	5.8740e-003	6.0520e-003



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tblVehicleEF	LHD2	2.5700e-004	6.5000e-005
tblVehicleEF	LHD2	1.1910e-003	1.2710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6000e-004	6.7400e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.24
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.52	19.50
tblVehicleEF	MCY	9.67	8.60
tblVehicleEF	MCY	165.74	207.81
tblVehicleEF	MCY	46.23	60.96
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	1.7750e-003	1.7170e-003
tblVehicleEF	MCY	3.4010e-003	2.8690e-003
tblVehicleEF	MCY	1.6600e-003	1.6070e-003
tblVehicleEF	MCY	3.2060e-003	2.7030e-003
tblVehicleEF	MCY	1.69	1.42
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.08	1.85
tblVehicleEF	MCY	2.0380e-003	2.0560e-003
tblVehicleEF	MCY	6.8100e-004	6.0300e-004

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tblVehicleEF	MCY	1.69	1.42
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.65	2.64
tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.26	2.01
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.23	19.46
tblVehicleEF	MCY	9.11	7.90
tblVehicleEF	MCY	165.74	207.59
tblVehicleEF	MCY	46.23	59.07
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	1.7750e-003	1.7170e-003
tblVehicleEF	MCY	3.4010e-003	2.8690e-003
tblVehicleEF	MCY	1.6600e-003	1.6070e-003
tblVehicleEF	MCY	3.2060e-003	2.7030e-003
tblVehicleEF	MCY	3.35	2.73
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.13	2.10
tblVehicleEF	MCY	0.57	1.84
tblVehicleEF	MCY	1.86	1.62
tblVehicleEF	MCY	2.0490e-003	2.0540e-003
tblVehicleEF	MCY	6.6500e-004	5.8500e-004
tblVehicleEF	MCY	3.35	2.73
tblVehicleEF	MCY	1.24	1.09

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tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.62	2.59
tblVehicleEF	MCY	0.57	1.84
tblVehicleEF	MCY	2.02	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	18.91
tblVehicleEF	MCY	9.62	8.38
tblVehicleEF	MCY	165.74	206.80
tblVehicleEF	MCY	46.23	60.47
tblVehicleEF	MCY	1.12	1.10
tblVehicleEF	MCY	1.7750e-003	1.7170e-003
tblVehicleEF	MCY	3.4010e-003	2.8690e-003
tblVehicleEF	MCY	1.6600e-003	1.6070e-003
tblVehicleEF	MCY	3.2060e-003	2.7030e-003
tblVehicleEF	MCY	1.60	1.63
tblVehicleEF	MCY	1.05	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.15	2.13
tblVehicleEF	MCY	0.65	2.13
tblVehicleEF	MCY	2.08	1.81
tblVehicleEF	MCY	2.0310e-003	2.0460e-003
tblVehicleEF	MCY	6.8100e-004	5.9800e-004
tblVehicleEF	MCY	1.60	1.63
tblVehicleEF	MCY	1.05	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.64	2.62

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tblVehicleEF	MCY	0.65	2.13
tblVehicleEF	MCY	2.27	1.97
tblVehicleEF	MDV	0.01	5.5310e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.42	1.15
tblVehicleEF	MDV	3.18	3.31
tblVehicleEF	MDV	488.89	418.28
tblVehicleEF	MDV	110.15	88.92
tblVehicleEF	MDV	0.17	0.12
tblVehicleEF	MDV	1.7110e-003	1.5590e-003
tblVehicleEF	MDV	2.4630e-003	2.0460e-003
tblVehicleEF	MDV	1.5780e-003	1.4390e-003
tblVehicleEF	MDV	2.2660e-003	1.8820e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.9000e-003	4.1360e-003
tblVehicleEF	MDV	1.1570e-003	8.8000e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.27	0.50

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tblVehicleEF	MDV	0.01	6.1670e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.73	1.36
tblVehicleEF	MDV	2.81	2.77
tblVehicleEF	MDV	530.71	441.48
tblVehicleEF	MDV	110.15	87.84
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.7110e-003	1.5590e-003
tblVehicleEF	MDV	2.4630e-003	2.0460e-003
tblVehicleEF	MDV	1.5780e-003	1.4390e-003
tblVehicleEF	MDV	2.2660e-003	1.8820e-003
tblVehicleEF	MDV	0.22	0.20
tblVehicleEF	MDV	0.23	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	5.3230e-003	4.3650e-003
tblVehicleEF	MDV	1.1510e-003	8.6900e-004
tblVehicleEF	MDV	0.22	0.20
tblVehicleEF	MDV	0.23	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.23	0.42
tblVehicleEF	MDV	0.01	5.4330e-003
tblVehicleEF	MDV	0.02	0.09

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tblVehicleEF	MDV	1.33	1.11
tblVehicleEF	MDV	3.24	3.29
tblVehicleEF	MDV	476.42	414.36
tblVehicleEF	MDV	110.15	88.88
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.7110e-003	1.5590e-003
tblVehicleEF	MDV	2.4630e-003	2.0460e-003
tblVehicleEF	MDV	1.5780e-003	1.4390e-003
tblVehicleEF	MDV	2.2660e-003	1.8820e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.55
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.7750e-003	4.0970e-003
tblVehicleEF	MDV	1.1590e-003	8.8000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.13	0.55
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MH	0.03	3.3940e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.70	0.35
tblVehicleEF	MH	5.98	0.00

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tblVehicleEF	MH	1,002.10	942.43
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.67	4.53
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.15
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	9.9460e-003	8.9090e-003
tblVehicleEF	MH	6.8100e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.03	3.3940e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.78	0.35
tblVehicleEF	MH	5.56	0.00

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tblVehicleEF	MH	1,002.10	942.43
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.55	4.28
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.15
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	2.87	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.06	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	9.9470e-003	8.9090e-003
tblVehicleEF	MH	6.7400e-004	0.00
tblVehicleEF	MH	2.87	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.06	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3940e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.70	0.35
tblVehicleEF	MH	6.02	0.00



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tblVehicleEF	MH	1,002.10	942.43
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.65	4.46
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.15
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	1.58	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	9.9460e-003	8.9090e-003
tblVehicleEF	MH	6.8200e-004	0.00
tblVehicleEF	MH	1.58	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MHD	0.02	2.7460e-003
tblVehicleEF	MHD	3.7220e-003	5.6870e-003
tblVehicleEF	MHD	0.06	7.1020e-003
tblVehicleEF	MHD	0.35	0.32

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tblVehicleEF	MHD	0.28	0.52
tblVehicleEF	MHD	6.06	0.85
tblVehicleEF	MHD	151.96	73.08
tblVehicleEF	MHD	1,066.63	977.33
tblVehicleEF	MHD	55.49	7.02
tblVehicleEF	MHD	0.65	0.69
tblVehicleEF	MHD	0.99	2.47
tblVehicleEF	MHD	1.0680e-003	2.4550e-003
tblVehicleEF	MHD	6.4490e-003	0.09
tblVehicleEF	MHD	7.8800e-004	8.3000e-005
tblVehicleEF	MHD	1.0220e-003	2.3490e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	7.6000e-005
tblVehicleEF	MHD	1.7450e-003	4.7300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.5800e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	MHD	1.4610e-003	6.9300e-004
tblVehicleEF	MHD	0.01	9.2820e-003
tblVehicleEF	MHD	6.6100e-004	6.9000e-005
tblVehicleEF	MHD	1.7450e-003	4.7300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.5800e-004	2.4800e-004

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tblVehicleEF	MHD	0.04	0.13
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.40	0.04
tblVehicleEF	MHD	0.02	2.6080e-003
tblVehicleEF	MHD	3.7740e-003	5.7080e-003
tblVehicleEF	MHD	0.05	6.8220e-003
tblVehicleEF	MHD	0.26	0.26
tblVehicleEF	MHD	0.28	0.52
tblVehicleEF	MHD	5.78	0.80
tblVehicleEF	MHD	160.96	74.59
tblVehicleEF	MHD	1,066.63	977.34
tblVehicleEF	MHD	55.49	6.94
tblVehicleEF	MHD	0.67	0.70
tblVehicleEF	MHD	0.93	2.33
tblVehicleEF	MHD	9.0000e-004	2.0720e-003
tblVehicleEF	MHD	6.4490e-003	0.09
tblVehicleEF	MHD	7.8800e-004	8.3000e-005
tblVehicleEF	MHD	8.6100e-004	1.9830e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	7.6000e-005
tblVehicleEF	MHD	3.3760e-003	8.5300e-004
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.6840e-003	4.9500e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04

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tblVehicleEF	MHD	1.5460e-003	7.0700e-004
tblVehicleEF	MHD	0.01	9.2820e-003
tblVehicleEF	MHD	6.5600e-004	6.9000e-005
tblVehicleEF	MHD	3.3760e-003	8.5300e-004
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	1.6840e-003	4.9500e-004
tblVehicleEF	MHD	0.04	0.13
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.39	0.04
tblVehicleEF	MHD	0.02	2.9480e-003
tblVehicleEF	MHD	3.6890e-003	5.6880e-003
tblVehicleEF	MHD	0.06	7.0370e-003
tblVehicleEF	MHD	0.49	0.40
tblVehicleEF	MHD	0.27	0.52
tblVehicleEF	MHD	6.14	0.84
tblVehicleEF	MHD	139.53	71.00
tblVehicleEF	MHD	1,066.63	977.33
tblVehicleEF	MHD	55.49	7.00
tblVehicleEF	MHD	0.62	0.67
tblVehicleEF	MHD	0.98	2.43
tblVehicleEF	MHD	1.2990e-003	2.9840e-003
tblVehicleEF	MHD	6.4490e-003	0.09
tblVehicleEF	MHD	7.8800e-004	8.3000e-005
tblVehicleEF	MHD	1.2430e-003	2.8550e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	7.6000e-005

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tblVehicleEF	MHD	1.3320e-003	5.0600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.7900e-004	2.6300e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	MHD	1.3440e-003	6.7300e-004
tblVehicleEF	MHD	0.01	9.2820e-003
tblVehicleEF	MHD	6.6300e-004	6.9000e-005
tblVehicleEF	MHD	1.3320e-003	5.0600e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.7900e-004	2.6300e-004
tblVehicleEF	MHD	0.04	0.13
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.41	0.04
tblVehicleEF	OBUS	0.01	8.8300e-003
tblVehicleEF	OBUS	8.0950e-003	9.8620e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.54	1.11
tblVehicleEF	OBUS	6.17	2.80
tblVehicleEF	OBUS	75.04	68.90
tblVehicleEF	OBUS	1,098.07	1,401.75
tblVehicleEF	OBUS	70.10	21.77
tblVehicleEF	OBUS	0.35	0.41

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tblVehicleEF	OBUS	1.12	1.96
tblVehicleEF	OBUS	1.2100e-004	1.7090e-003
tblVehicleEF	OBUS	6.0450e-003	0.05
tblVehicleEF	OBUS	8.2300e-004	2.0900e-004
tblVehicleEF	OBUS	1.1600e-004	1.6350e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.9300e-004
tblVehicleEF	OBUS	2.1800e-003	2.6440e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3000e-004	1.1510e-003
tblVehicleEF	OBUS	0.04	0.10
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.13
tblVehicleEF	OBUS	7.2800e-004	6.5800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.1500e-004
tblVehicleEF	OBUS	2.1800e-003	2.6440e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3000e-004	1.1510e-003
tblVehicleEF	OBUS	0.05	0.13
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.42	0.15
tblVehicleEF	OBUS	0.01	8.8560e-003
tblVehicleEF	OBUS	8.2540e-003	0.01
tblVehicleEF	OBUS	0.03	0.02

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tblVehicleEF	OBUS	0.26	0.46
tblVehicleEF	OBUS	0.55	1.14
tblVehicleEF	OBUS	5.76	2.60
tblVehicleEF	OBUS	78.48	69.40
tblVehicleEF	OBUS	1,098.07	1,401.78
tblVehicleEF	OBUS	70.10	21.43
tblVehicleEF	OBUS	0.36	0.41
tblVehicleEF	OBUS	1.04	1.83
tblVehicleEF	OBUS	1.0200e-004	1.4440e-003
tblVehicleEF	OBUS	6.0450e-003	0.05
tblVehicleEF	OBUS	8.2300e-004	2.0900e-004
tblVehicleEF	OBUS	9.8000e-005	1.3810e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.9300e-004
tblVehicleEF	OBUS	4.0690e-003	4.6630e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7890e-003	2.2350e-003
tblVehicleEF	OBUS	0.04	0.10
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	OBUS	7.6100e-004	6.6300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0200e-004	2.1200e-004
tblVehicleEF	OBUS	4.0690e-003	4.6630e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07

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tblVehicleEF	OBUS	1.7890e-003	2.2350e-003
tblVehicleEF	OBUS	0.05	0.13
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	OBUS	0.01	8.8320e-003
tblVehicleEF	OBUS	8.0660e-003	9.8760e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.51
tblVehicleEF	OBUS	0.54	1.12
tblVehicleEF	OBUS	6.22	2.79
tblVehicleEF	OBUS	70.30	68.21
tblVehicleEF	OBUS	1,098.07	1,401.75
tblVehicleEF	OBUS	70.10	21.75
tblVehicleEF	OBUS	0.34	0.41
tblVehicleEF	OBUS	1.11	1.93
tblVehicleEF	OBUS	1.4700e-004	2.0750e-003
tblVehicleEF	OBUS	6.0450e-003	0.05
tblVehicleEF	OBUS	8.2300e-004	2.0900e-004
tblVehicleEF	OBUS	1.4100e-004	1.9850e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.9300e-004
tblVehicleEF	OBUS	1.8870e-003	2.7900e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.5400e-004	1.2290e-003
tblVehicleEF	OBUS	0.04	0.10
tblVehicleEF	OBUS	0.05	0.30



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tblVehicleEF	OBUS	0.39	0.13
tblVehicleEF	OBUS	6.8300e-004	6.5100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1000e-004	2.1500e-004
tblVehicleEF	OBUS	1.8870e-003	2.7900e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	8.5400e-004	1.2290e-003
tblVehicleEF	OBUS	0.05	0.13
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.42	0.15
tblVehicleEF	SBUS	0.84	0.09
tblVehicleEF	SBUS	0.01	7.1350e-003
tblVehicleEF	SBUS	0.06	7.9940e-003
tblVehicleEF	SBUS	7.83	3.38
tblVehicleEF	SBUS	0.64	0.59
tblVehicleEF	SBUS	6.66	1.10
tblVehicleEF	SBUS	1,146.29	374.62
tblVehicleEF	SBUS	1,103.40	1,117.10
tblVehicleEF	SBUS	53.92	6.97
tblVehicleEF	SBUS	10.00	3.53
tblVehicleEF	SBUS	4.65	4.80
tblVehicleEF	SBUS	0.01	3.9570e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.4000e-005
tblVehicleEF	SBUS	0.01	3.7860e-003

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tblVehicleEF	SBUS	2.6950e-003	2.6440e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	4.1000e-005
tblVehicleEF	SBUS	4.6830e-003	1.3760e-003
tblVehicleEF	SBUS	0.03	9.8810e-003
tblVehicleEF	SBUS	0.94	0.41
tblVehicleEF	SBUS	2.1770e-003	6.8600e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.5830e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5500e-004	6.9000e-005
tblVehicleEF	SBUS	4.6830e-003	1.3760e-003
tblVehicleEF	SBUS	0.03	9.8810e-003
tblVehicleEF	SBUS	1.35	0.59
tblVehicleEF	SBUS	2.1770e-003	6.8600e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.40	0.05
tblVehicleEF	SBUS	0.84	0.09
tblVehicleEF	SBUS	0.01	7.2250e-003
tblVehicleEF	SBUS	0.05	6.6640e-003
tblVehicleEF	SBUS	7.71	3.33
tblVehicleEF	SBUS	0.65	0.60
tblVehicleEF	SBUS	4.83	0.79
tblVehicleEF	SBUS	1,198.60	385.14

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tblVehicleEF	SBUS	1,103.40	1,117.12
tblVehicleEF	SBUS	53.92	6.45
tblVehicleEF	SBUS	10.32	3.62
tblVehicleEF	SBUS	4.37	4.52
tblVehicleEF	SBUS	9.1190e-003	3.3420e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.4000e-005
tblVehicleEF	SBUS	8.7240e-003	3.1980e-003
tblVehicleEF	SBUS	2.6950e-003	2.6440e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	4.1000e-005
tblVehicleEF	SBUS	8.4640e-003	2.4140e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	4.0830e-003	1.2840e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.04
tblVehicleEF	SBUS	0.01	3.6820e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2400e-004	6.4000e-005
tblVehicleEF	SBUS	8.4640e-003	2.4140e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.35	0.59
tblVehicleEF	SBUS	4.0830e-003	1.2840e-003
tblVehicleEF	SBUS	0.13	0.12

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tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.04
tblVehicleEF	SBUS	0.84	0.09
tblVehicleEF	SBUS	0.01	7.1340e-003
tblVehicleEF	SBUS	0.07	8.1370e-003
tblVehicleEF	SBUS	8.00	3.43
tblVehicleEF	SBUS	0.63	0.59
tblVehicleEF	SBUS	7.02	1.12
tblVehicleEF	SBUS	1,074.07	360.11
tblVehicleEF	SBUS	1,103.40	1,117.10
tblVehicleEF	SBUS	53.92	7.01
tblVehicleEF	SBUS	9.56	3.40
tblVehicleEF	SBUS	4.60	4.73
tblVehicleEF	SBUS	0.01	4.8060e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.4000e-005
tblVehicleEF	SBUS	0.01	4.5980e-003
tblVehicleEF	SBUS	2.6950e-003	2.6440e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	4.1000e-005
tblVehicleEF	SBUS	4.1680e-003	1.3130e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.94	0.41
tblVehicleEF	SBUS	2.1000e-003	7.1200e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.07

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tblVehicleEF	SBUS	0.38	0.05
tblVehicleEF	SBUS	0.01	3.4450e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6100e-004	6.9000e-005
tblVehicleEF	SBUS	4.1680e-003	1.3130e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.35	0.59
tblVehicleEF	SBUS	2.1000e-003	7.1200e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.51	3.04
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	8.45	23.57
tblVehicleEF	UBUS	15.26	1.95
tblVehicleEF	UBUS	1,822.40	1,641.55
tblVehicleEF	UBUS	153.45	23.43
tblVehicleEF	UBUS	4.95	0.30
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.1610e-003
tblVehicleEF	UBUS	1.4200e-003	2.0900e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.05	2.0480e-003
tblVehicleEF	UBUS	1.3060e-003	1.9200e-004
tblVehicleEF	UBUS	9.7430e-003	2.3410e-003

## Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	4.7860e-003	9.2400e-004
tblVehicleEF	UBUS	0.52	0.05
tblVehicleEF	UBUS	0.02	0.06
tblVehicleEF	UBUS	1.17	0.10
tblVehicleEF	UBUS	9.9960e-003	6.3900e-003
tblVehicleEF	UBUS	1.8100e-003	2.3200e-004
tblVehicleEF	UBUS	9.7430e-003	2.3410e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	4.7860e-003	9.2400e-004
tblVehicleEF	UBUS	2.08	3.11
tblVehicleEF	UBUS	0.02	0.06
tblVehicleEF	UBUS	1.28	0.10
tblVehicleEF	UBUS	1.52	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	8.53	23.58
tblVehicleEF	UBUS	13.06	1.66
tblVehicleEF	UBUS	1,822.40	1,641.55
tblVehicleEF	UBUS	153.45	22.94
tblVehicleEF	UBUS	4.62	0.29
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.1610e-003
tblVehicleEF	UBUS	1.4200e-003	2.0900e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.05	2.0480e-003

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tblVehicleEF	UBUS	1.3060e-003	1.9200e-004
tblVehicleEF	UBUS	0.02	4.1840e-003
tblVehicleEF	UBUS	0.14	0.02
tblVehicleEF	UBUS	9.6600e-003	1.8850e-003
tblVehicleEF	UBUS	0.53	0.05
tblVehicleEF	UBUS	0.02	0.06
tblVehicleEF	UBUS	1.06	0.09
tblVehicleEF	UBUS	9.9970e-003	6.3900e-003
tblVehicleEF	UBUS	1.7720e-003	2.2700e-004
tblVehicleEF	UBUS	0.02	4.1840e-003
tblVehicleEF	UBUS	0.14	0.02
tblVehicleEF	UBUS	9.6600e-003	1.8850e-003
tblVehicleEF	UBUS	2.09	3.11
tblVehicleEF	UBUS	0.02	0.06
tblVehicleEF	UBUS	1.17	0.10
tblVehicleEF	UBUS	1.51	3.04
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	8.44	23.57
tblVehicleEF	UBUS	15.44	1.93
tblVehicleEF	UBUS	1,822.40	1,641.55
tblVehicleEF	UBUS	153.45	23.40
tblVehicleEF	UBUS	4.92	0.30
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.1610e-003
tblVehicleEF	UBUS	1.4200e-003	2.0900e-004
tblVehicleEF	UBUS	0.21	0.04

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tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.05	2.0480e-003
tblVehicleEF	UBUS	1.3060e-003	1.9200e-004
tblVehicleEF	UBUS	8.9770e-003	2.4590e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.3820e-003	9.7700e-004
tblVehicleEF	UBUS	0.52	0.05
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	1.18	0.10
tblVehicleEF	UBUS	9.9960e-003	6.3900e-003
tblVehicleEF	UBUS	1.8130e-003	2.3200e-004
tblVehicleEF	UBUS	8.9770e-003	2.4590e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.3820e-003	9.7700e-004
tblVehicleEF	UBUS	2.08	3.11
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	1.29	0.10

**2.0 Emissions Summary**

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	12-1-2020	2-28-2021	1.0319	0.8437
2	3-1-2021	5-31-2021	1.2308	1.1952
3	6-1-2021	8-31-2021	1.7202	1.4999
4	9-1-2021	9-30-2021	0.7162	0.6051
		Highest	1.7202	1.4999

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	0.1017	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1017</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1017	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1017</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Detouring Traffic/Street Closure	Site Preparation	12/1/2020	12/7/2020	5	5	
2	Grubbing/Land Clearing	Site Preparation	12/8/2020	12/19/2020	5	9	
3	Grading/Excavation/Removing Existing Bridge	Grading	12/20/2020	2/12/2021	5	40	
4	Bridge Construction	Building Construction	2/15/2021	11/5/2021	5	190	
5	Drainage/Utilities/Sub-Grade	Grading	7/30/2021	9/16/2021	5	35	
6	Paving	Paving	8/26/2021	9/16/2021	5	16	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 29.7

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Detouring Traffic/Street Closure	Rubber Tired Dozers	0	8.00	247	0.40
Detouring Traffic/Street Closure	Signal Boards	2	8.00	6	0.82
Detouring Traffic/Street Closure	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grubbing/Land Clearing	Crawler Tractors	1	8.00	212	0.43
Grubbing/Land Clearing	Excavators	1	8.00	158	0.38
Grubbing/Land Clearing	Off-Highway Trucks	2	8.00	402	0.38
Grubbing/Land Clearing	Rubber Tired Dozers	0	8.00	247	0.40
Grubbing/Land Clearing	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading/Excavation/Removing Existing Bridge	Crawler Tractors	2	8.00	212	0.43
Grading/Excavation/Removing Existing Bridge	Excavators	2	8.00	158	0.38

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Grading/Excavation/Removing Existing Bridge	Graders	0	8.00	187	0.41
Grading/Excavation/Removing Existing Bridge	Off-Highway Trucks	2	8.00	402	0.38
Grading/Excavation/Removing Existing Bridge	Other Construction Equipment	1	8.00	172	0.42
Grading/Excavation/Removing Existing Bridge	Rubber Tired Dozers	0	8.00	247	0.40
Grading/Excavation/Removing Existing Bridge	Scrapers	0	8.00	367	0.48
Grading/Excavation/Removing Existing Bridge	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Bridge Construction	Bore/Drill Rigs	1	8.00	221	0.50
Bridge Construction	Cranes	1	8.00	231	0.29
Bridge Construction	Excavators	1	8.00	158	0.38
Bridge Construction	Forklifts	0	8.00	89	0.20
Bridge Construction	Generator Sets	0	8.00	84	0.74
Bridge Construction	Paving Equipment	1	8.00	132	0.36
Bridge Construction	Plate Compactors	1	8.00	8	0.43
Bridge Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Bridge Construction	Welders	0	8.00	46	0.45
Drainage/Utilities/Sub-Grade	Crawler Tractors	2	8.00	212	0.43
Drainage/Utilities/Sub-Grade	Excavators	0	8.00	158	0.38
Drainage/Utilities/Sub-Grade	Graders	0	8.00	187	0.41
Drainage/Utilities/Sub-Grade	Rubber Tired Dozers	0	8.00	247	0.40
Drainage/Utilities/Sub-Grade	Scrapers	2	8.00	367	0.48
Drainage/Utilities/Sub-Grade	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Signal Boards	1	8.00	6	0.82
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	
Detouring		2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Traffic/Street Closure											
Grubbing/Land Clearing		4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading/Excavation/Removing Existing Bridge		7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Bridge Construction		5	543.00	212.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage/Utilities/Sub-Grade		4	10.00	0.00	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

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Detouring Traffic/Street Closure - 2020**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	1.8000e-003	1.5100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2237	0.2237	2.0000e-005	0.0000	0.2243
<b>Total</b>	<b>2.9000e-004</b>	<b>1.8000e-003</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2237</b>	<b>0.2237</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.2243</b>

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**3.2 Detouring Traffic/Street Closure - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.3000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1150	0.1150	0.0000	0.0000	0.1150
<b>Total</b>	<b>6.0000e-005</b>	<b>4.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1150</b>	<b>0.1150</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1150</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.2237	0.2237	2.0000e-005	0.0000	0.2243
<b>Total</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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.2237</b>	<b>0.2237</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.2243</b>

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**3.2 Detouring Traffic/Street Closure - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.3000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1150	0.1150	0.0000	0.0000	0.1150
<b>Total</b>	<b>6.0000e-005</b>	<b>4.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1150</b>	<b>0.1150</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1150</b>

**3.3 Grubbing/Land Clearing - 2020**

**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					4.7700e-003	0.0000	4.7700e-003	5.2000e-004	0.0000	5.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6800e-003	0.1013	0.0603	1.8000e-004		3.8600e-003	3.8600e-003		3.5500e-003	3.5500e-003	0.0000	15.5853	15.5853	5.0400e-003	0.0000	15.7113
<b>Total</b>	<b>9.6800e-003</b>	<b>0.1013</b>	<b>0.0603</b>	<b>1.8000e-004</b>	<b>4.7700e-003</b>	<b>3.8600e-003</b>	<b>8.6300e-003</b>	<b>5.2000e-004</b>	<b>3.5500e-003</b>	<b>4.0700e-003</b>	<b>0.0000</b>	<b>15.5853</b>	<b>15.5853</b>	<b>5.0400e-003</b>	<b>0.0000</b>	<b>15.7113</b>



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**3.3 Grubbing/Land Clearing - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.4000e-004	1.5500e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4138	0.4138	1.0000e-005	0.0000	0.4141
<b>Total</b>	<b>2.1000e-004</b>	<b>1.4000e-004</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4138</b>	<b>0.4138</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4141</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					1.8600e-003	0.0000	1.8600e-003	2.0000e-004	0.0000	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3500e-003	0.0841	0.0995	1.8000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003	0.0000	15.5853	15.5853	5.0400e-003	0.0000	15.7113
<b>Total</b>	<b>4.3500e-003</b>	<b>0.0841</b>	<b>0.0995</b>	<b>1.8000e-004</b>	<b>1.8600e-003</b>	<b>3.3000e-003</b>	<b>5.1600e-003</b>	<b>2.0000e-004</b>	<b>3.3000e-003</b>	<b>3.5000e-003</b>	<b>0.0000</b>	<b>15.5853</b>	<b>15.5853</b>	<b>5.0400e-003</b>	<b>0.0000</b>	<b>15.7113</b>

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**3.3 Grubbing/Land Clearing - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.4000e-004	1.5500e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4138	0.4138	1.0000e-005	0.0000	0.4141
<b>Total</b>	<b>2.1000e-004</b>	<b>1.4000e-004</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4138</b>	<b>0.4138</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4141</b>

**3.4 Grading/Excavation/Removing Existing Bridge - 2020**

**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					0.0212	0.0000	0.0212	2.2900e-003	0.0000	2.2900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0156	0.1692	0.1048	2.6000e-004		6.8900e-003	6.8900e-003		6.3400e-003	6.3400e-003	0.0000	23.1757	23.1757	7.5000e-003	0.0000	23.3630
<b>Total</b>	<b>0.0156</b>	<b>0.1692</b>	<b>0.1048</b>	<b>2.6000e-004</b>	<b>0.0212</b>	<b>6.8900e-003</b>	<b>0.0281</b>	<b>2.2900e-003</b>	<b>6.3400e-003</b>	<b>8.6300e-003</b>	<b>0.0000</b>	<b>23.1757</b>	<b>23.1757</b>	<b>7.5000e-003</b>	<b>0.0000</b>	<b>23.3630</b>

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**3.4 Grading/Excavation/Removing Existing Bridge - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.6000e-004	2.7900e-003	1.0000e-005	8.9000e-004	1.0000e-005	9.0000e-004	2.4000e-004	1.0000e-005	2.4000e-004	0.0000	0.7449	0.7449	2.0000e-005	0.0000	0.7453
<b>Total</b>	<b>3.7000e-004</b>	<b>2.6000e-004</b>	<b>2.7900e-003</b>	<b>1.0000e-005</b>	<b>8.9000e-004</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>2.4000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7449</b>	<b>0.7449</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.7453</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					8.2700e-003	0.0000	8.2700e-003	8.9000e-004	0.0000	8.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4800e-003	0.1252	0.1571	2.6000e-004		5.1200e-003	5.1200e-003		5.1200e-003	5.1200e-003	0.0000	23.1756	23.1756	7.5000e-003	0.0000	23.3630
<b>Total</b>	<b>6.4800e-003</b>	<b>0.1252</b>	<b>0.1571</b>	<b>2.6000e-004</b>	<b>8.2700e-003</b>	<b>5.1200e-003</b>	<b>0.0134</b>	<b>8.9000e-004</b>	<b>5.1200e-003</b>	<b>6.0100e-003</b>	<b>0.0000</b>	<b>23.1756</b>	<b>23.1756</b>	<b>7.5000e-003</b>	<b>0.0000</b>	<b>23.3630</b>

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**3.4 Grading/Excavation/Removing Existing Bridge - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.6000e-004	2.7900e-003	1.0000e-005	8.9000e-004	1.0000e-005	9.0000e-004	2.4000e-004	1.0000e-005	2.4000e-004	0.0000	0.7449	0.7449	2.0000e-005	0.0000	0.7453
<b>Total</b>	<b>3.7000e-004</b>	<b>2.6000e-004</b>	<b>2.7900e-003</b>	<b>1.0000e-005</b>	<b>8.9000e-004</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>2.4000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7449</b>	<b>0.7449</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.7453</b>

**3.4 Grading/Excavation/Removing Existing Bridge - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0212	0.0000	0.0212	2.2900e-003	0.0000	2.2900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0495	0.5138	0.3515	9.1000e-004		0.0209	0.0209		0.0192	0.0192	0.0000	79.8218	79.8218	0.0258	0.0000	80.4672
<b>Total</b>	<b>0.0495</b>	<b>0.5138</b>	<b>0.3515</b>	<b>9.1000e-004</b>	<b>0.0212</b>	<b>0.0209</b>	<b>0.0421</b>	<b>2.2900e-003</b>	<b>0.0192</b>	<b>0.0215</b>	<b>0.0000</b>	<b>79.8218</b>	<b>79.8218</b>	<b>0.0258</b>	<b>0.0000</b>	<b>80.4672</b>

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**3.4 Grading/Excavation/Removing Existing Bridge - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-003	8.1000e-004	8.7800e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0800e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.4799	2.4799	6.0000e-005	0.0000	2.4813
<b>Total</b>	<b>1.2000e-003</b>	<b>8.1000e-004</b>	<b>8.7800e-003</b>	<b>3.0000e-005</b>	<b>3.0700e-003</b>	<b>2.0000e-005</b>	<b>3.0800e-003</b>	<b>8.1000e-004</b>	<b>2.0000e-005</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>2.4799</b>	<b>2.4799</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.4813</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					8.2700e-003	0.0000	8.2700e-003	8.9000e-004	0.0000	8.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.4314	0.5413	9.1000e-004		0.0176	0.0176		0.0176	0.0176	0.0000	79.8217	79.8217	0.0258	0.0000	80.4671
<b>Total</b>	<b>0.0223</b>	<b>0.4314</b>	<b>0.5413</b>	<b>9.1000e-004</b>	<b>8.2700e-003</b>	<b>0.0176</b>	<b>0.0259</b>	<b>8.9000e-004</b>	<b>0.0176</b>	<b>0.0185</b>	<b>0.0000</b>	<b>79.8217</b>	<b>79.8217</b>	<b>0.0258</b>	<b>0.0000</b>	<b>80.4671</b>

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**3.4 Grading/Excavation/Removing Existing Bridge - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-003	8.1000e-004	8.7800e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0800e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.4799	2.4799	6.0000e-005	0.0000	2.4813
<b>Total</b>	<b>1.2000e-003</b>	<b>8.1000e-004</b>	<b>8.7800e-003</b>	<b>3.0000e-005</b>	<b>3.0700e-003</b>	<b>2.0000e-005</b>	<b>3.0800e-003</b>	<b>8.1000e-004</b>	<b>2.0000e-005</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>2.4799</b>	<b>2.4799</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.4813</b>

**3.5 Bridge Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1076	1.1606	0.9577	2.3700e-003		0.0474	0.0474		0.0437	0.0437	0.0000	206.8319	206.8319	0.0662	0.0000	208.4880
<b>Total</b>	<b>0.1076</b>	<b>1.1606</b>	<b>0.9577</b>	<b>2.3700e-003</b>		<b>0.0474</b>	<b>0.0474</b>		<b>0.0437</b>	<b>0.0437</b>	<b>0.0000</b>	<b>206.8319</b>	<b>206.8319</b>	<b>0.0662</b>	<b>0.0000</b>	<b>208.4880</b>

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**3.5 Bridge Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0481	1.8779	0.3613	5.1400e-003	0.1272	3.5900e-003	0.1308	0.0367	3.4300e-003	0.0401	0.0000	491.3620	491.3620	0.0375	0.0000	492.2991
Worker	0.2212	0.1490	1.6239	5.0700e-003	0.5670	3.4000e-003	0.5704	0.1506	3.1300e-003	0.1537	0.0000	458.5114	458.5114	0.0107	0.0000	458.7784
<b>Total</b>	<b>0.2692</b>	<b>2.0269</b>	<b>1.9852</b>	<b>0.0102</b>	<b>0.6942</b>	<b>6.9900e-003</b>	<b>0.7012</b>	<b>0.1873</b>	<b>6.5600e-003</b>	<b>0.1938</b>	<b>0.0000</b>	<b>949.8734</b>	<b>949.8734</b>	<b>0.0482</b>	<b>0.0000</b>	<b>951.0775</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	0.0573	1.1080	1.4400	2.3700e-003		0.0464	0.0464		0.0464	0.0464	0.0000	206.8317	206.8317	0.0662	0.0000	208.4877
<b>Total</b>	<b>0.0573</b>	<b>1.1080</b>	<b>1.4400</b>	<b>2.3700e-003</b>		<b>0.0464</b>	<b>0.0464</b>		<b>0.0464</b>	<b>0.0464</b>	<b>0.0000</b>	<b>206.8317</b>	<b>206.8317</b>	<b>0.0662</b>	<b>0.0000</b>	<b>208.4877</b>

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**3.5 Bridge Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0481	1.8779	0.3613	5.1400e-003	0.1272	3.5900e-003	0.1308	0.0367	3.4300e-003	0.0401	0.0000	491.3620	491.3620	0.0375	0.0000	492.2991
Worker	0.2212	0.1490	1.6239	5.0700e-003	0.5670	3.4000e-003	0.5704	0.1506	3.1300e-003	0.1537	0.0000	458.5114	458.5114	0.0107	0.0000	458.7784
<b>Total</b>	<b>0.2692</b>	<b>2.0269</b>	<b>1.9852</b>	<b>0.0102</b>	<b>0.6942</b>	<b>6.9900e-003</b>	<b>0.7012</b>	<b>0.1873</b>	<b>6.5600e-003</b>	<b>0.1938</b>	<b>0.0000</b>	<b>949.8734</b>	<b>949.8734</b>	<b>0.0482</b>	<b>0.0000</b>	<b>951.0775</b>

**3.6 Drainage/Utilities/Sub-Grade - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0557	0.0000	0.0557	6.0100e-003	0.0000	6.0100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0518	0.6185	0.3304	8.1000e-004		0.0238	0.0238		0.0219	0.0219	0.0000	70.7510	70.7510	0.0229	0.0000	71.3230
<b>Total</b>	<b>0.0518</b>	<b>0.6185</b>	<b>0.3304</b>	<b>8.1000e-004</b>	<b>0.0557</b>	<b>0.0238</b>	<b>0.0794</b>	<b>6.0100e-003</b>	<b>0.0219</b>	<b>0.0279</b>	<b>0.0000</b>	<b>70.7510</b>	<b>70.7510</b>	<b>0.0229</b>	<b>0.0000</b>	<b>71.3230</b>



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**3.6 Drainage/Utilities/Sub-Grade - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.1000e-004	5.5100e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.5555	1.5555	4.0000e-005	0.0000	1.5564
<b>Total</b>	<b>7.5000e-004</b>	<b>5.1000e-004</b>	<b>5.5100e-003</b>	<b>2.0000e-005</b>	<b>1.9200e-003</b>	<b>1.0000e-005</b>	<b>1.9400e-003</b>	<b>5.1000e-004</b>	<b>1.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.5555</b>	<b>1.5555</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.5564</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					0.0217	0.0000	0.0217	2.3400e-003	0.0000	2.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0198	0.3828	0.4290	8.1000e-004		0.0145	0.0145		0.0145	0.0145	0.0000	70.7509	70.7509	0.0229	0.0000	71.3229
<b>Total</b>	<b>0.0198</b>	<b>0.3828</b>	<b>0.4290</b>	<b>8.1000e-004</b>	<b>0.0217</b>	<b>0.0145</b>	<b>0.0362</b>	<b>2.3400e-003</b>	<b>0.0145</b>	<b>0.0169</b>	<b>0.0000</b>	<b>70.7509</b>	<b>70.7509</b>	<b>0.0229</b>	<b>0.0000</b>	<b>71.3229</b>

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**3.6 Drainage/Utilities/Sub-Grade - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.1000e-004	5.5100e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.5555	1.5555	4.0000e-005	0.0000	1.5564
<b>Total</b>	<b>7.5000e-004</b>	<b>5.1000e-004</b>	<b>5.5100e-003</b>	<b>2.0000e-005</b>	<b>1.9200e-003</b>	<b>1.0000e-005</b>	<b>1.9400e-003</b>	<b>5.1000e-004</b>	<b>1.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.5555</b>	<b>1.5555</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.5564</b>

**3.7 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4800e-003	0.0849	0.0972	1.5000e-004		4.6100e-003	4.6100e-003		4.2500e-003	4.2500e-003	0.0000	12.7348	12.7348	4.0400e-003	0.0000	12.8358
Paving	0.0389					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0474</b>	<b>0.0849</b>	<b>0.0972</b>	<b>1.5000e-004</b>		<b>4.6100e-003</b>	<b>4.6100e-003</b>		<b>4.2500e-003</b>	<b>4.2500e-003</b>	<b>0.0000</b>	<b>12.7348</b>	<b>12.7348</b>	<b>4.0400e-003</b>	<b>0.0000</b>	<b>12.8358</b>

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**3.7 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.5000e-004	3.7800e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0666	1.0666	2.0000e-005	0.0000	1.0672
<b>Total</b>	<b>5.1000e-004</b>	<b>3.5000e-004</b>	<b>3.7800e-003</b>	<b>1.0000e-005</b>	<b>1.3200e-003</b>	<b>1.0000e-005</b>	<b>1.3300e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.0666</b>	<b>1.0666</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.0672</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	3.4600e-003	0.0729	0.1067	1.5000e-004		4.3800e-003	4.3800e-003		4.3800e-003	4.3800e-003	0.0000	12.7348	12.7348	4.0400e-003	0.0000	12.8358
Paving	0.0389					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0424</b>	<b>0.0729</b>	<b>0.1067</b>	<b>1.5000e-004</b>		<b>4.3800e-003</b>	<b>4.3800e-003</b>		<b>4.3800e-003</b>	<b>4.3800e-003</b>	<b>0.0000</b>	<b>12.7348</b>	<b>12.7348</b>	<b>4.0400e-003</b>	<b>0.0000</b>	<b>12.8358</b>

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**3.7 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.5000e-004	3.7800e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0666	1.0666	2.0000e-005	0.0000	1.0672
<b>Total</b>	<b>5.1000e-004</b>	<b>3.5000e-004</b>	<b>3.7800e-003</b>	<b>1.0000e-005</b>	<b>1.3200e-003</b>	<b>1.0000e-005</b>	<b>1.3300e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.0666</b>	<b>1.0666</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.0672</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N



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**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</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>0.0000</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>0.0000</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1017	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
Unmitigated	0.1017	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004



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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0836					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
<b>Total</b>	<b>0.1017</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0836					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
<b>Total</b>	<b>0.1017</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</b>

**7.0 Water Detail**

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### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**Perris Valley Storm Drain (Construction - Mitigated)**  
**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	29.70	Acre	29.70	1,293,732.00	0

**1.2 Other Project Characteristics**

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

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Project Characteristics -

Land Use -

Construction Phase - Construction Schedule approved by the Project Applicant

Off-road Equipment - Construction Equipment based on consultation with Project Applicant

Off-road Equipment - Construction Equipment based on consultation with Project Applicant

Off-road Equipment - Construction Equipment based on consultation with Project Applicant

Off-road Equipment - Construction Equipment based on consultation with Project Applicant

Off-road Equipment - Construction Equipment based on consultation with Project Applicant

Off-road Equipment - Construction Equipment based on consultation with Project Applicant

Off-road Equipment - Construction Equipment based on consultation with Project Applicant

Off-road Equipment - Construction Equipment based on consultation with Project Applicant

Off-road Equipment - Construction Equipment based on consultation with Project Applicant

Grading - For purposes of analysis, total acres graded per day is based on the equipment specific grading rates (CalEEMod Appendix A) and the equipment list.

Construction Off-road Equipment Mitigation - MM Air 3 and MM Air 6

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3

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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	45.00	30.00
tblConstructionPhase	NumDays	440.00	109.00
tblConstructionPhase	NumDays	20.00	4.00
tblConstructionPhase	NumDays	45.00	30.00
tblConstructionPhase	NumDays	440.00	137.00
tblConstructionPhase	NumDays	45.00	22.00
tblConstructionPhase	NumDays	35.00	15.00
tblGrading	AcresOfGrading	5.00	10.00
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tblGrading	AcresOfGrading	15.00	30.00
tblGrading	AcresOfGrading	66.00	44.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00



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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00

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tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
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tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00

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tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03

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tblVehicleEF	HHD	3.4000e-005	0.00
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tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
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tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
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tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
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tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04

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tblVehicleEF	HHD	23.77	6.08
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tblVehicleEF	HHD	0.01	3.4600e-003
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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
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tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05

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tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	256.38
tblVehicleEF	LDA	56.65	53.20
tblVehicleEF	LDA	0.05	0.03
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tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23

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tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	277.20
tblVehicleEF	LDA	56.65	52.57
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05

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tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	252.87
tblVehicleEF	LDA	56.65	53.18
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37



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tblVehicleEF	LDT1	305.87	304.11
tblVehicleEF	LDT1	70.39	64.86
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	325.77
tblVehicleEF	LDT1	70.39	64.04

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tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	300.45
tblVehicleEF	LDT1	70.39	64.83
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003

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tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41
tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	322.21
tblVehicleEF	LDT2	78.65	68.98
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003

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tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003
tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	342.99
tblVehicleEF	LDT2	78.65	68.14
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16

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tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	318.70
tblVehicleEF	LDT2	78.65	68.95
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07

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tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004

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tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43

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tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07



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tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49

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tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003

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tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04

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tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07

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tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22

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tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.56	1.82

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tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003

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tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80
tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64



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tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	404.92
tblVehicleEF	MDV	107.24	85.97
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003
tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09

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tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	427.12
tblVehicleEF	MDV	107.24	84.94
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46

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tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	401.17
tblVehicleEF	MDV	107.24	85.93
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003

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tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003

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tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003
tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003

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tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003

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tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004

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tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004



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tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003
tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005

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tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93

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tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14

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tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004

## Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72
tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05

## Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01

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tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36

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tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	8.0660e-003	3.0540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01



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tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003
tblVehicleEF	SBUS	0.06	8.1930e-003
tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41

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tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003

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tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004

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tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02

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tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11

**2.0 Emissions Summary**

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**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0198	0.2037	0.1364	3.5000e-004	0.0225	8.2200e-003	0.0307	2.6200e-003	7.5700e-003	0.0102	0.0000	30.6168	30.6168	9.5400e-003	0.0000	30.8555
2021	0.4646	4.0357	3.6115	0.0144	0.7523	0.0873	0.8396	0.1978	0.0805	0.2783	0.0000	1,318.3155	1,318.3155	0.1574	0.0000	1,322.2496
2022	0.1682	1.1644	1.0275	3.9300e-003	0.2085	0.0290	0.2374	0.0525	0.0267	0.0792	0.0000	358.6354	358.6354	0.0480	0.0000	359.8349
<b>Maximum</b>	<b>0.4646</b>	<b>4.0357</b>	<b>3.6115</b>	<b>0.0144</b>	<b>0.7523</b>	<b>0.0873</b>	<b>0.8396</b>	<b>0.1978</b>	<b>0.0805</b>	<b>0.2783</b>	<b>0.0000</b>	<b>1,318.3155</b>	<b>1,318.3155</b>	<b>0.1574</b>	<b>0.0000</b>	<b>1,322.2496</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	9.0100e-003	0.1608	0.2039	3.5000e-004	9.5100e-003	6.5500e-003	0.0161	1.2200e-003	6.5500e-003	7.7700e-003	0.0000	30.6168	30.6168	9.5400e-003	0.0000	30.8554
2021	0.3894	3.9516	4.3478	0.0144	0.7329	0.0850	0.8180	0.1957	0.0836	0.2793	0.0000	1,318.3151	1,318.3151	0.1574	0.0000	1,322.2492
2022	0.1444	1.1134	1.2277	3.9300e-003	0.1942	0.0270	0.2212	0.0509	0.0264	0.0773	0.0000	358.6353	358.6353	0.0480	0.0000	359.8348
<b>Maximum</b>	<b>0.3894</b>	<b>3.9516</b>	<b>4.3478</b>	<b>0.0144</b>	<b>0.7329</b>	<b>0.0850</b>	<b>0.8180</b>	<b>0.1957</b>	<b>0.0836</b>	<b>0.2793</b>	<b>0.0000</b>	<b>1,318.3151</b>	<b>1,318.3151</b>	<b>0.1574</b>	<b>0.0000</b>	<b>1,322.2492</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	16.83	3.30	-21.02	0.00	4.74	4.76	4.74	1.99	-1.52	0.89	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	12-1-2020	2-28-2021	0.7304	0.6367
2	3-1-2021	5-31-2021	1.2541	1.2309
3	6-1-2021	8-31-2021	1.0397	0.9775
4	9-1-2021	11-30-2021	1.2356	1.2118
5	12-1-2021	2-28-2022	1.1416	1.1590
6	3-1-2022	5-31-2022	0.6236	0.5233
		Highest	1.2541	1.2309

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	0.1017	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1017</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1017	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1017</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**



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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Implementing Traffic Controls	Site Preparation	12/1/2020	12/7/2020	5	5	
2	Grubbing/LandClearing	Site Preparation	12/8/2020	12/21/2020	5	10	
3	Stage 1: Grading/Excavation/Removing Existing Bridge	Grading	12/22/2020	2/1/2021	5	30	
4	Stage 1: Bridge Construction	Building Construction	2/15/2021	7/15/2021	5	109	
5	Implementing Traffic Controls (Shifting Traffic)	Site Preparation	7/16/2021	7/21/2021	5	4	
6	Stage 2: Grading/Excavation/Removing Existing Bridge	Grading	7/22/2021	9/1/2021	5	30	
7	Stage 2: Bridge Construction	Building Construction	9/2/2021	3/12/2022	5	137	
8	Drainage/Utilities/Sub-Grade	Grading	3/13/2022	4/12/2022	5	22	
9	Paving	Paving	4/12/2022	5/2/2022	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 29.7

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Implementing Traffic Controls	Rubber Tired Dozers	0	8.00	247	0.40
Implementing Traffic Controls	Signal Boards	2	8.00	6	0.82
Implementing Traffic Controls	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grubbing/LandClearing	Crawler Tractors	1	8.00	212	0.43
Grubbing/LandClearing	Excavators	1	8.00	158	0.38
Grubbing/LandClearing	Off-Highway Trucks	1	8.00	402	0.38

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Grubbing/LandClearing	Rubber Tired Dozers	0	8.00	247	0.40
Grubbing/LandClearing	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Stage 1: Grading/Excavation/Removing Existing Bridge	Crawler Tractors	1	8.00	212	0.43
Stage 1: Grading/Excavation/Removing Existing Bridge	Excavators	2	8.00	158	0.38
Stage 1: Grading/Excavation/Removing Existing Bridge	Graders	0	8.00	187	0.41
Stage 1: Grading/Excavation/Removing Existing Bridge	Off-Highway Trucks	2	8.00	402	0.38
Stage 1: Grading/Excavation/Removing Existing Bridge	Other Construction Equipment	1	8.00	172	0.42
Stage 1: Grading/Excavation/Removing Existing Bridge	Rubber Tired Dozers	0	8.00	247	0.40
Stage 1: Grading/Excavation/Removing Existing Bridge	Scrapers	0	8.00	367	0.48
Stage 1: Grading/Excavation/Removing Existing Bridge	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Stage 1: Bridge Construction	Bore/Drill Rigs	1	8.00	221	0.50
Stage 1: Bridge Construction	Cranes	1	8.00	231	0.29
Stage 1: Bridge Construction	Excavators	1	8.00	158	0.38
Stage 1: Bridge Construction	Forklifts	0	8.00	89	0.20
Stage 1: Bridge Construction	Generator Sets	0	8.00	84	0.74
Stage 1: Bridge Construction	Pavers	1	8.00	130	0.42
Stage 1: Bridge Construction	Plate Compactors	1	8.00	8	0.43
Stage 1: Bridge Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Stage 1: Bridge Construction	Welders	0	8.00	46	0.45
Implementing Traffic Controls (Shifting Traffic)	Rubber Tired Dozers	0	8.00	247	0.40
Implementing Traffic Controls (Shifting Traffic)	Signal Boards	2	8.00	6	0.82
Implementing Traffic Controls (Shifting Traffic)	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Stage 2: Grading/Excavation/Removing Existing Bridge	Crawler Tractors	1	8.00	212	0.43
Stage 2: Grading/Excavation/Removing Existing Bridge	Excavators	2	8.00	158	0.38

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Stage 2: Grading/Excavation/Removing Existing Bridge	Graders	0	8.00	187	0.41
Stage 2: Grading/Excavation/Removing Existing Bridge	Off-Highway Trucks	2	8.00	402	0.38
Stage 2: Grading/Excavation/Removing Existing Bridge	Other Construction Equipment	1	8.00	172	0.42
Stage 2: Grading/Excavation/Removing Existing Bridge	Rubber Tired Dozers	0	8.00	247	0.40
Stage 2: Grading/Excavation/Removing Existing Bridge	Scrapers	0	8.00	367	0.48
Stage 2: Grading/Excavation/Removing Existing Bridge	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Stage 2: Bridge Construction	Bore/Drill Rigs	1	8.00	221	0.50
Stage 2: Bridge Construction	Cranes	1	8.00	231	0.29
Stage 2: Bridge Construction	Excavators	1	8.00	158	0.38
Stage 2: Bridge Construction	Forklifts	0	8.00	89	0.20
Stage 2: Bridge Construction	Generator Sets	0	8.00	84	0.74
Stage 2: Bridge Construction	Pavers	1	8.00	130	0.42
Stage 2: Bridge Construction	Plate Compactors	1	8.00	8	0.43
Stage 2: Bridge Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Stage 2: Bridge Construction	Welders	0	8.00	46	0.45
Drainage/Utilities/Sub-Grade	Crawler Tractors	2	8.00	212	0.43
Drainage/Utilities/Sub-Grade	Excavators	0	8.00	158	0.38
Drainage/Utilities/Sub-Grade	Graders	0	8.00	187	0.41
Drainage/Utilities/Sub-Grade	Rubber Tired Dozers	0	8.00	247	0.40
Drainage/Utilities/Sub-Grade	Scrapers	2	8.00	367	0.48
Drainage/Utilities/Sub-Grade	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Signal Boards	1	8.00	6	0.82
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Implementing Traffic Controls	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grubbing/LandClearing	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Stage 1: Grading/Excavation/Pre-Construction	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Stage 1: Bridge Construction	5	543.00	212.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Implementing Traffic Controls (Shifting Traffic)	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2: Grading/Excavation/Pre-Construction	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2: Bridge Construction	5	543.00	212.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage/Utilities/Sub-Grade	4	10.00	0.00	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

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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**3.2 Implementing Traffic Controls - 2020**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	1.8000e-003	1.5100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2237	0.2237	2.0000e-005	0.0000	0.2243
<b>Total</b>	<b>2.9000e-004</b>	<b>1.8000e-003</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2237</b>	<b>0.2237</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.2243</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.3000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1150	0.1150	0.0000	0.0000	0.1150
<b>Total</b>	<b>6.0000e-005</b>	<b>4.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1150</b>	<b>0.1150</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1150</b>

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**3.2 Implementing Traffic Controls - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	1.8000e-003	1.5100e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2237	0.2237	2.0000e-005	0.0000	0.2243
<b>Total</b>	<b>2.9000e-004</b>	<b>1.8000e-003</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2237</b>	<b>0.2237</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.2243</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.3000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1150	0.1150	0.0000	0.0000	0.1150
<b>Total</b>	<b>6.0000e-005</b>	<b>4.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1150</b>	<b>0.1150</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1150</b>

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**3.3 Grubbing/LandClearing - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-003	0.0000	5.3000e-003	5.7000e-004	0.0000	5.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4300e-003	0.0809	0.0479	1.3000e-004		3.1400e-003	3.1400e-003		2.8900e-003	2.8900e-003	0.0000	11.5173	11.5173	3.7200e-003	0.0000	11.6104
<b>Total</b>	<b>7.4300e-003</b>	<b>0.0809</b>	<b>0.0479</b>	<b>1.3000e-004</b>	<b>5.3000e-003</b>	<b>3.1400e-003</b>	<b>8.4400e-003</b>	<b>5.7000e-004</b>	<b>2.8900e-003</b>	<b>3.4600e-003</b>	<b>0.0000</b>	<b>11.5173</b>	<b>11.5173</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>11.6104</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.3800e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3678	0.3678	1.0000e-005	0.0000	0.3681
<b>Total</b>	<b>1.8000e-004</b>	<b>1.3000e-004</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.3678</b>	<b>0.3678</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3681</b>

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**3.3 Grubbing/LandClearing - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0700e-003	0.0000	2.0700e-003	2.2000e-004	0.0000	2.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2200e-003	0.0622	0.0755	1.3000e-004		2.4900e-003	2.4900e-003		2.4900e-003	2.4900e-003	0.0000	11.5173	11.5173	3.7200e-003	0.0000	11.6104
<b>Total</b>	<b>3.2200e-003</b>	<b>0.0622</b>	<b>0.0755</b>	<b>1.3000e-004</b>	<b>2.0700e-003</b>	<b>2.4900e-003</b>	<b>4.5600e-003</b>	<b>2.2000e-004</b>	<b>2.4900e-003</b>	<b>2.7100e-003</b>	<b>0.0000</b>	<b>11.5173</b>	<b>11.5173</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>11.6104</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.3800e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3678	0.3678	1.0000e-005	0.0000	0.3681
<b>Total</b>	<b>1.8000e-004</b>	<b>1.3000e-004</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.3678</b>	<b>0.3678</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3681</b>



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**3.4 Stage 1: Grading/Excavation/Removing Existing Bridge - 2020**

**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					0.0159	0.0000	0.0159	1.7200e-003	0.0000	1.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0116	0.1206	0.0831	2.0000e-004		5.0100e-003	5.0100e-003		4.6100e-003	4.6100e-003	0.0000	17.8413	17.8413	5.7700e-003	0.0000	17.9856
<b>Total</b>	<b>0.0116</b>	<b>0.1206</b>	<b>0.0831</b>	<b>2.0000e-004</b>	<b>0.0159</b>	<b>5.0100e-003</b>	<b>0.0209</b>	<b>1.7200e-003</b>	<b>4.6100e-003</b>	<b>6.3300e-003</b>	<b>0.0000</b>	<b>17.8413</b>	<b>17.8413</b>	<b>5.7700e-003</b>	<b>0.0000</b>	<b>17.9856</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.9000e-004	2.0600e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5518	0.5518	1.0000e-005	0.0000	0.5521
<b>Total</b>	<b>2.8000e-004</b>	<b>1.9000e-004</b>	<b>2.0600e-003</b>	<b>1.0000e-005</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5518</b>	<b>0.5518</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.5521</b>

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**3.4 Stage 1: Grading/Excavation/Removing Existing Bridge - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.2000e-003	0.0000	6.2000e-003	6.7000e-004	0.0000	6.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9900e-003	0.0964	0.1230	2.0000e-004		3.9800e-003	3.9800e-003		3.9800e-003	3.9800e-003	0.0000	17.8413	17.8413	5.7700e-003	0.0000	17.9856
<b>Total</b>	<b>4.9900e-003</b>	<b>0.0964</b>	<b>0.1230</b>	<b>2.0000e-004</b>	<b>6.2000e-003</b>	<b>3.9800e-003</b>	<b>0.0102</b>	<b>6.7000e-004</b>	<b>3.9800e-003</b>	<b>4.6500e-003</b>	<b>0.0000</b>	<b>17.8413</b>	<b>17.8413</b>	<b>5.7700e-003</b>	<b>0.0000</b>	<b>17.9856</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.9000e-004	2.0600e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5518	0.5518	1.0000e-005	0.0000	0.5521
<b>Total</b>	<b>2.8000e-004</b>	<b>1.9000e-004</b>	<b>2.0600e-003</b>	<b>1.0000e-005</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5518</b>	<b>0.5518</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.5521</b>

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**3.4 Stage 1: Grading/Excavation/Removing Existing Bridge - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0159	0.0000	0.0159	1.7200e-003	0.0000	1.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0291	0.2880	0.2227	5.6000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	49.0601	49.0601	0.0159	0.0000	49.4568
<b>Total</b>	<b>0.0291</b>	<b>0.2880</b>	<b>0.2227</b>	<b>5.6000e-004</b>	<b>0.0159</b>	<b>0.0120</b>	<b>0.0279</b>	<b>1.7200e-003</b>	<b>0.0110</b>	<b>0.0127</b>	<b>0.0000</b>	<b>49.0601</b>	<b>49.0601</b>	<b>0.0159</b>	<b>0.0000</b>	<b>49.4568</b>

**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	7.1000e-004	4.8000e-004	5.1900e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4666	1.4666	3.0000e-005	0.0000	1.4675
<b>Total</b>	<b>7.1000e-004</b>	<b>4.8000e-004</b>	<b>5.1900e-003</b>	<b>2.0000e-005</b>	<b>1.8100e-003</b>	<b>1.0000e-005</b>	<b>1.8200e-003</b>	<b>4.8000e-004</b>	<b>1.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.4666</b>	<b>1.4666</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.4675</b>

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**3.4 Stage 1: Grading/Excavation/Removing Existing Bridge - 2021**

**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					6.2000e-003	0.0000	6.2000e-003	6.7000e-004	0.0000	6.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0137	0.2651	0.3381	5.6000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	49.0600	49.0600	0.0159	0.0000	49.4567
<b>Total</b>	<b>0.0137</b>	<b>0.2651</b>	<b>0.3381</b>	<b>5.6000e-004</b>	<b>6.2000e-003</b>	<b>0.0110</b>	<b>0.0172</b>	<b>6.7000e-004</b>	<b>0.0110</b>	<b>0.0116</b>	<b>0.0000</b>	<b>49.0600</b>	<b>49.0600</b>	<b>0.0159</b>	<b>0.0000</b>	<b>49.4567</b>

**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	7.1000e-004	4.8000e-004	5.1900e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4666	1.4666	3.0000e-005	0.0000	1.4675
<b>Total</b>	<b>7.1000e-004</b>	<b>4.8000e-004</b>	<b>5.1900e-003</b>	<b>2.0000e-005</b>	<b>1.8100e-003</b>	<b>1.0000e-005</b>	<b>1.8200e-003</b>	<b>4.8000e-004</b>	<b>1.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.4666</b>	<b>1.4666</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.4675</b>

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**3.5 Stage 1: Bridge Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0647	0.7015	0.5692	1.3900e-003		0.0288	0.0288		0.0265	0.0265	0.0000	121.6526	121.6526	0.0390	0.0000	122.6269
<b>Total</b>	<b>0.0647</b>	<b>0.7015</b>	<b>0.5692</b>	<b>1.3900e-003</b>		<b>0.0288</b>	<b>0.0288</b>		<b>0.0265</b>	<b>0.0265</b>	<b>0.0000</b>	<b>121.6526</b>	<b>121.6526</b>	<b>0.0390</b>	<b>0.0000</b>	<b>122.6269</b>

**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	0.0276	1.0773	0.2073	2.9500e-003	0.0730	2.0600e-003	0.0750	0.0211	1.9700e-003	0.0230	0.0000	281.8866	281.8866	0.0215	0.0000	282.4242
Worker	0.1269	0.0855	0.9316	2.9100e-003	0.3253	1.9500e-003	0.3272	0.0864	1.7900e-003	0.0882	0.0000	263.0408	263.0408	6.1300e-003	0.0000	263.1939
<b>Total</b>	<b>0.1545</b>	<b>1.1628</b>	<b>1.1389</b>	<b>5.8600e-003</b>	<b>0.3982</b>	<b>4.0100e-003</b>	<b>0.4023</b>	<b>0.1074</b>	<b>3.7600e-003</b>	<b>0.1112</b>	<b>0.0000</b>	<b>544.9274</b>	<b>544.9274</b>	<b>0.0276</b>	<b>0.0000</b>	<b>545.6182</b>

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**3.5 Stage 1: Bridge Construction - 2021**

**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	0.0430	0.6848	0.8269	1.3900e-003		0.0288	0.0288		0.0283	0.0283	0.0000	121.6525	121.6525	0.0390	0.0000	122.6268
<b>Total</b>	<b>0.0430</b>	<b>0.6848</b>	<b>0.8269</b>	<b>1.3900e-003</b>		<b>0.0288</b>	<b>0.0288</b>		<b>0.0283</b>	<b>0.0283</b>	<b>0.0000</b>	<b>121.6525</b>	<b>121.6525</b>	<b>0.0390</b>	<b>0.0000</b>	<b>122.6268</b>

**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	0.0276	1.0773	0.2073	2.9500e-003	0.0730	2.0600e-003	0.0750	0.0211	1.9700e-003	0.0230	0.0000	281.8866	281.8866	0.0215	0.0000	282.4242
Worker	0.1269	0.0855	0.9316	2.9100e-003	0.3253	1.9500e-003	0.3272	0.0864	1.7900e-003	0.0882	0.0000	263.0408	263.0408	6.1300e-003	0.0000	263.1939
<b>Total</b>	<b>0.1545</b>	<b>1.1628</b>	<b>1.1389</b>	<b>5.8600e-003</b>	<b>0.3982</b>	<b>4.0100e-003</b>	<b>0.4023</b>	<b>0.1074</b>	<b>3.7600e-003</b>	<b>0.1112</b>	<b>0.0000</b>	<b>544.9274</b>	<b>544.9274</b>	<b>0.0276</b>	<b>0.0000</b>	<b>545.6182</b>

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**3.6 Implementing Traffic Controls (Shifting Traffic) - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3000e-004	1.4400e-003	1.2000e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.1790	0.1790	2.0000e-005	0.0000	0.1794
<b>Total</b>	<b>2.3000e-004</b>	<b>1.4400e-003</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1790</b>	<b>0.1790</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.1794</b>

**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	4.0000e-005	3.0000e-005	3.1000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0889	0.0889	0.0000	0.0000	0.0889
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0889</b>	<b>0.0889</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0889</b>

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**3.6 Implementing Traffic Controls (Shifting Traffic) - 2021**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3000e-004	1.4400e-003	1.2000e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.1790	0.1790	2.0000e-005	0.0000	0.1794
<b>Total</b>	<b>2.3000e-004</b>	<b>1.4400e-003</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1790</b>	<b>0.1790</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.1794</b>

**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	4.0000e-005	3.0000e-005	3.1000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0889	0.0889	0.0000	0.0000	0.0889
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0889</b>	<b>0.0889</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0889</b>



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**3.7 Stage 2: Grading/Excavation/Removing Existing Bridge - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0159	0.0000	0.0159	1.7200e-003	0.0000	1.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0396	0.3927	0.3036	7.6000e-004		0.0163	0.0163		0.0150	0.0150	0.0000	66.9001	66.9001	0.0216	0.0000	67.4410
<b>Total</b>	<b>0.0396</b>	<b>0.3927</b>	<b>0.3036</b>	<b>7.6000e-004</b>	<b>0.0159</b>	<b>0.0163</b>	<b>0.0322</b>	<b>1.7200e-003</b>	<b>0.0150</b>	<b>0.0167</b>	<b>0.0000</b>	<b>66.9001</b>	<b>66.9001</b>	<b>0.0216</b>	<b>0.0000</b>	<b>67.4410</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6000e-004	6.5000e-004	7.0800e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4900e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.9999	1.9999	5.0000e-005	0.0000	2.0011
<b>Total</b>	<b>9.6000e-004</b>	<b>6.5000e-004</b>	<b>7.0800e-003</b>	<b>2.0000e-005</b>	<b>2.4700e-003</b>	<b>1.0000e-005</b>	<b>2.4900e-003</b>	<b>6.6000e-004</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>1.9999</b>	<b>1.9999</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.0011</b>

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**3.7 Stage 2: Grading/Excavation/Removing Existing Bridge - 2021**

**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					6.2000e-003	0.0000	6.2000e-003	6.7000e-004	0.0000	6.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0187	0.3615	0.4611	7.6000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	66.9000	66.9000	0.0216	0.0000	67.4410
<b>Total</b>	<b>0.0187</b>	<b>0.3615</b>	<b>0.4611</b>	<b>7.6000e-004</b>	<b>6.2000e-003</b>	<b>0.0149</b>	<b>0.0211</b>	<b>6.7000e-004</b>	<b>0.0149</b>	<b>0.0156</b>	<b>0.0000</b>	<b>66.9000</b>	<b>66.9000</b>	<b>0.0216</b>	<b>0.0000</b>	<b>67.4410</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6000e-004	6.5000e-004	7.0800e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4900e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.9999	1.9999	5.0000e-005	0.0000	2.0011
<b>Total</b>	<b>9.6000e-004</b>	<b>6.5000e-004</b>	<b>7.0800e-003</b>	<b>2.0000e-005</b>	<b>2.4700e-003</b>	<b>1.0000e-005</b>	<b>2.4900e-003</b>	<b>6.6000e-004</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>1.9999</b>	<b>1.9999</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.0011</b>

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**3.8 Stage 2: Bridge Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0516	0.5599	0.4543	1.1100e-003		0.0230	0.0230		0.0212	0.0212	0.0000	97.0989	97.0989	0.0311	0.0000	97.8765
<b>Total</b>	<b>0.0516</b>	<b>0.5599</b>	<b>0.4543</b>	<b>1.1100e-003</b>		<b>0.0230</b>	<b>0.0230</b>		<b>0.0212</b>	<b>0.0212</b>	<b>0.0000</b>	<b>97.0989</b>	<b>97.0989</b>	<b>0.0311</b>	<b>0.0000</b>	<b>97.8765</b>

**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	0.0220	0.8599	0.1654	2.3500e-003	0.0582	1.6400e-003	0.0599	0.0168	1.5700e-003	0.0184	0.0000	224.9921	224.9921	0.0172	0.0000	225.4212
Worker	0.1013	0.0682	0.7436	2.3200e-003	0.2596	1.5600e-003	0.2612	0.0689	1.4300e-003	0.0704	0.0000	209.9500	209.9500	4.8900e-003	0.0000	210.0722
<b>Total</b>	<b>0.1233</b>	<b>0.9281</b>	<b>0.9090</b>	<b>4.6700e-003</b>	<b>0.3179</b>	<b>3.2000e-003</b>	<b>0.3211</b>	<b>0.0857</b>	<b>3.0000e-003</b>	<b>0.0888</b>	<b>0.0000</b>	<b>434.9420</b>	<b>434.9420</b>	<b>0.0221</b>	<b>0.0000</b>	<b>435.4934</b>

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**3.8 Stage 2: Bridge Construction - 2021**

**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	0.0343	0.5466	0.6600	1.1100e-003		0.0230	0.0230		0.0226	0.0226	0.0000	97.0988	97.0988	0.0311	0.0000	97.8764
<b>Total</b>	<b>0.0343</b>	<b>0.5466</b>	<b>0.6600</b>	<b>1.1100e-003</b>		<b>0.0230</b>	<b>0.0230</b>		<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>97.0988</b>	<b>97.0988</b>	<b>0.0311</b>	<b>0.0000</b>	<b>97.8764</b>

**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	0.0220	0.8599	0.1654	2.3500e-003	0.0582	1.6400e-003	0.0599	0.0168	1.5700e-003	0.0184	0.0000	224.9921	224.9921	0.0172	0.0000	225.4212
Worker	0.1013	0.0682	0.7436	2.3200e-003	0.2596	1.5600e-003	0.2612	0.0689	1.4300e-003	0.0704	0.0000	209.9500	209.9500	4.8900e-003	0.0000	210.0722
<b>Total</b>	<b>0.1233</b>	<b>0.9281</b>	<b>0.9090</b>	<b>4.6700e-003</b>	<b>0.3179</b>	<b>3.2000e-003</b>	<b>0.3211</b>	<b>0.0857</b>	<b>3.0000e-003</b>	<b>0.0888</b>	<b>0.0000</b>	<b>434.9420</b>	<b>434.9420</b>	<b>0.0221</b>	<b>0.0000</b>	<b>435.4934</b>

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**3.8 Stage 2: Bridge Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0262	0.2645	0.2571	6.4000e-004		0.0111	0.0111		0.0102	0.0102	0.0000	55.8405	55.8405	0.0179	0.0000	56.2877
<b>Total</b>	<b>0.0262</b>	<b>0.2645</b>	<b>0.2571</b>	<b>6.4000e-004</b>		<b>0.0111</b>	<b>0.0111</b>		<b>0.0102</b>	<b>0.0102</b>	<b>0.0000</b>	<b>55.8405</b>	<b>55.8405</b>	<b>0.0179</b>	<b>0.0000</b>	<b>56.2877</b>

**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	0.0118	0.4656	0.0886	1.3400e-003	0.0335	7.9000e-004	0.0343	9.6600e-003	7.6000e-004	0.0104	0.0000	128.1935	128.1935	9.3500e-003	0.0000	128.4271
Worker	0.0545	0.0353	0.3937	1.2900e-003	0.1492	8.7000e-004	0.1501	0.0396	8.0000e-004	0.0404	0.0000	116.2578	116.2578	2.5300e-003	0.0000	116.3210
<b>Total</b>	<b>0.0663</b>	<b>0.5009</b>	<b>0.4822</b>	<b>2.6300e-003</b>	<b>0.1827</b>	<b>1.6600e-003</b>	<b>0.1844</b>	<b>0.0493</b>	<b>1.5600e-003</b>	<b>0.0508</b>	<b>0.0000</b>	<b>244.4513</b>	<b>244.4513</b>	<b>0.0119</b>	<b>0.0000</b>	<b>244.7481</b>

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**3.8 Stage 2: Bridge Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0187	0.3017	0.3788	6.4000e-004		0.0126	0.0126		0.0124	0.0124	0.0000	55.8404	55.8404	0.0179	0.0000	56.2876
<b>Total</b>	<b>0.0187</b>	<b>0.3017</b>	<b>0.3788</b>	<b>6.4000e-004</b>		<b>0.0126</b>	<b>0.0126</b>		<b>0.0124</b>	<b>0.0124</b>	<b>0.0000</b>	<b>55.8404</b>	<b>55.8404</b>	<b>0.0179</b>	<b>0.0000</b>	<b>56.2876</b>

**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	0.0118	0.4656	0.0886	1.3400e-003	0.0335	7.9000e-004	0.0343	9.6600e-003	7.6000e-004	0.0104	0.0000	128.1935	128.1935	9.3500e-003	0.0000	128.4271
Worker	0.0545	0.0353	0.3937	1.2900e-003	0.1492	8.7000e-004	0.1501	0.0396	8.0000e-004	0.0404	0.0000	116.2578	116.2578	2.5300e-003	0.0000	116.3210
<b>Total</b>	<b>0.0663</b>	<b>0.5009</b>	<b>0.4822</b>	<b>2.6300e-003</b>	<b>0.1827</b>	<b>1.6600e-003</b>	<b>0.1844</b>	<b>0.0493</b>	<b>1.5600e-003</b>	<b>0.0508</b>	<b>0.0000</b>	<b>244.4513</b>	<b>244.4513</b>	<b>0.0119</b>	<b>0.0000</b>	<b>244.7481</b>

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**3.9 Drainage/Utilities/Sub-Grade - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0233	0.0000	0.0233	2.5200e-003	0.0000	2.5200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0289	0.3289	0.1912	5.1000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	44.4930	44.4930	0.0144	0.0000	44.8528
<b>Total</b>	<b>0.0289</b>	<b>0.3289</b>	<b>0.1912</b>	<b>5.1000e-004</b>	<b>0.0233</b>	<b>0.0127</b>	<b>0.0360</b>	<b>2.5200e-003</b>	<b>0.0117</b>	<b>0.0142</b>	<b>0.0000</b>	<b>44.4930</b>	<b>44.4930</b>	<b>0.0144</b>	<b>0.0000</b>	<b>44.8528</b>

**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	4.4000e-004	2.9000e-004	3.1900e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9421	0.9421	2.0000e-005	0.0000	0.9426
<b>Total</b>	<b>4.4000e-004</b>	<b>2.9000e-004</b>	<b>3.1900e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.9421</b>	<b>0.9421</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.9426</b>

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**3.9 Drainage/Utilities/Sub-Grade - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.1000e-003	0.0000	9.1000e-003	9.8000e-004	0.0000	9.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0125	0.2406	0.2697	5.1000e-004		9.1300e-003	9.1300e-003		9.1300e-003	9.1300e-003	0.0000	44.4930	44.4930	0.0144	0.0000	44.8527
<b>Total</b>	<b>0.0125</b>	<b>0.2406</b>	<b>0.2697</b>	<b>5.1000e-004</b>	<b>9.1000e-003</b>	<b>9.1300e-003</b>	<b>0.0182</b>	<b>9.8000e-004</b>	<b>9.1300e-003</b>	<b>0.0101</b>	<b>0.0000</b>	<b>44.4930</b>	<b>44.4930</b>	<b>0.0144</b>	<b>0.0000</b>	<b>44.8527</b>

**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	4.4000e-004	2.9000e-004	3.1900e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9421	0.9421	2.0000e-005	0.0000	0.9426
<b>Total</b>	<b>4.4000e-004</b>	<b>2.9000e-004</b>	<b>3.1900e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.9421</b>	<b>0.9421</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.9426</b>



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**3.10 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0400e-003	0.0696	0.0905	1.4000e-004		3.5900e-003	3.5900e-003		3.3100e-003	3.3100e-003	0.0000	11.9451	11.9451	3.7900e-003	0.0000	12.0398
Paving	0.0389					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0460</b>	<b>0.0696</b>	<b>0.0905</b>	<b>1.4000e-004</b>		<b>3.5900e-003</b>	<b>3.5900e-003</b>		<b>3.3100e-003</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>11.9451</b>	<b>11.9451</b>	<b>3.7900e-003</b>	<b>0.0000</b>	<b>12.0398</b>

**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	4.5000e-004	2.9000e-004	3.2600e-003	1.0000e-005	1.2400e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9635	0.9635	2.0000e-005	0.0000	0.9640
<b>Total</b>	<b>4.5000e-004</b>	<b>2.9000e-004</b>	<b>3.2600e-003</b>	<b>1.0000e-005</b>	<b>1.2400e-003</b>	<b>1.0000e-005</b>	<b>1.2400e-003</b>	<b>3.3000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.9635</b>	<b>0.9635</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.9640</b>

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**3.10 Paving - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0400e-003	0.0696	0.0905	1.4000e-004		3.5900e-003	3.5900e-003		3.3100e-003	3.3100e-003	0.0000	11.9450	11.9450	3.7900e-003	0.0000	12.0398
Paving	0.0389					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0460</b>	<b>0.0696</b>	<b>0.0905</b>	<b>1.4000e-004</b>		<b>3.5900e-003</b>	<b>3.5900e-003</b>		<b>3.3100e-003</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>11.9450</b>	<b>11.9450</b>	<b>3.7900e-003</b>	<b>0.0000</b>	<b>12.0398</b>

**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	4.5000e-004	2.9000e-004	3.2600e-003	1.0000e-005	1.2400e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9635	0.9635	2.0000e-005	0.0000	0.9640
<b>Total</b>	<b>4.5000e-004</b>	<b>2.9000e-004</b>	<b>3.2600e-003</b>	<b>1.0000e-005</b>	<b>1.2400e-003</b>	<b>1.0000e-005</b>	<b>1.2400e-003</b>	<b>3.3000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.9635</b>	<b>0.9635</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.9640</b>

**4.0 Operational Detail - Mobile**

Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



Perris Valley Storm Drain (Construction - Mitigated) - 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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Perris Valley Storm Drain (Construction - Mitigated) - 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	0.1017	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
Unmitigated	0.1017	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0836					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
<b>Total</b>	<b>0.1017</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</b>

Perris Valley Storm Drain (Construction - Mitigated) - 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	0.0180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0836					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
<b>Total</b>	<b>0.1017</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**



Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Perris Valley Storm Drain (Construction - Mitigated) - 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			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Perris Valley Storm Drain (Construction - Mitigated) - Riverside-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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## **APPENDIX 4.3:**

### **CALEEMOD RIDER 2 AND 4 WAREHOUSE CONSTRUCTION ANNUAL EMISSIONS MODEL OUTPUTS**

IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

**IDI Rider 2 & 4 (Construction - Mitigated)**  
**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,373.45	1000sqft	31.53	1,373,449.00	0
Other Asphalt Surfaces	874.22	1000sqft	20.07	874,218.00	0
Other Non-Asphalt Surfaces	368.62	1000sqft	8.46	368,616.00	0
Parking Lot	514.00	Space	4.72	205,600.00	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>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

Project Characteristics -

Land Use - Total Project Area is 64.8 ac.

Construction Phase - Construction schedule adjusted per information provided by the Project applicant.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment -

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Grading - For purposes of analysis, total acres graded per day is based on the equipment specific grading rates (CalEEMod Appendix A) and the equipment list.

Architectural Coating - 10 g/L Voc Paint

Vehicle Trips - Construction Run Only.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Area Coating -

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - MM Air 3 and MM Air 6

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00



IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	40.00	20.00
tblConstructionPhase	NumDays	110.00	40.00
tblConstructionPhase	NumDays	1,110.00	155.00
tblConstructionPhase	NumDays	75.00	65.00

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblConstructionPhase	NumDays	75.00	40.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	AcresOfGrading	140.00	160.00
tblGrading	AcresOfGrading	40.00	70.00
tblLandUse	LandUseSquareFeet	1,373,450.00	1,373,449.00
tblLandUse	LotAcreage	4.63	4.72
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	1,291.04	0.00
tblVehicleEF	HHD	1.43	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.10	2.1311e-007
tblVehicleEF	HHD	3.28	5.70
tblVehicleEF	HHD	0.46	0.43
tblVehicleEF	HHD	1.46	5.1287e-003
tblVehicleEF	HHD	6,485.38	1,098.23
tblVehicleEF	HHD	1,461.92	1,379.84
tblVehicleEF	HHD	4.62	0.04

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	HHD	26.41	5.91
tblVehicleEF	HHD	2.69	3.40
tblVehicleEF	HHD	0.01	8.1205e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.06
tblVehicleEF	HHD	3.8000e-005	6.9620e-007
tblVehicleEF	HHD	0.01	7.7692e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8102e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	6.4013e-007
tblVehicleEF	HHD	8.4000e-005	3.9431e-006
tblVehicleEF	HHD	2.5800e-003	1.4075e-004
tblVehicleEF	HHD	0.85	0.44
tblVehicleEF	HHD	4.8000e-005	2.4154e-006
tblVehicleEF	HHD	0.07	0.09
tblVehicleEF	HHD	1.8000e-004	7.3333e-004
tblVehicleEF	HHD	0.05	1.0921e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	4.3455e-007
tblVehicleEF	HHD	8.4000e-005	3.9431e-006
tblVehicleEF	HHD	2.5800e-003	1.4075e-004
tblVehicleEF	HHD	0.97	0.51
tblVehicleEF	HHD	4.8000e-005	2.4154e-006
tblVehicleEF	HHD	0.11	0.12

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	HHD	1.8000e-004	7.3333e-004
tblVehicleEF	HHD	0.05	1.1957e-006
tblVehicleEF	HHD	1.35	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.10	2.0331e-007
tblVehicleEF	HHD	2.39	5.56
tblVehicleEF	HHD	0.46	0.43
tblVehicleEF	HHD	1.39	4.8401e-003
tblVehicleEF	HHD	6,867.98	1,095.85
tblVehicleEF	HHD	1,461.92	1,379.84
tblVehicleEF	HHD	4.62	0.04
tblVehicleEF	HHD	27.25	5.75
tblVehicleEF	HHD	2.54	3.21
tblVehicleEF	HHD	0.01	7.5760e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.06
tblVehicleEF	HHD	3.8000e-005	6.9620e-007
tblVehicleEF	HHD	0.01	7.2482e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8102e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	6.4013e-007
tblVehicleEF	HHD	1.6300e-004	7.4470e-006
tblVehicleEF	HHD	2.9560e-003	1.5586e-004
tblVehicleEF	HHD	0.80	0.46
tblVehicleEF	HHD	9.2000e-005	5.0918e-006

IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	HHD	0.07	0.09
tblVehicleEF	HHD	1.8400e-004	7.4800e-004
tblVehicleEF	HHD	0.04	1.0449e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	4.3003e-007
tblVehicleEF	HHD	1.6300e-004	7.4470e-006
tblVehicleEF	HHD	2.9560e-003	1.5586e-004
tblVehicleEF	HHD	0.92	0.53
tblVehicleEF	HHD	9.2000e-005	5.0918e-006
tblVehicleEF	HHD	0.11	0.12
tblVehicleEF	HHD	1.8400e-004	7.4800e-004
tblVehicleEF	HHD	0.05	1.1441e-006
tblVehicleEF	HHD	1.54	0.02
tblVehicleEF	HHD	0.03	3.9264e-003
tblVehicleEF	HHD	0.10	2.1145e-007
tblVehicleEF	HHD	4.51	5.86
tblVehicleEF	HHD	0.45	0.36
tblVehicleEF	HHD	1.47	5.0740e-003
tblVehicleEF	HHD	5,957.03	1,095.99
tblVehicleEF	HHD	1,461.92	1,363.80
tblVehicleEF	HHD	4.62	0.04
tblVehicleEF	HHD	25.25	6.10
tblVehicleEF	HHD	2.67	3.34
tblVehicleEF	HHD	0.02	8.8013e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	HHD	0.01	0.06
tblVehicleEF	HHD	3.8000e-005	6.9620e-007
tblVehicleEF	HHD	0.02	8.4206e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.7660e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	6.4013e-007
tblVehicleEF	HHD	6.7000e-005	4.1581e-006
tblVehicleEF	HHD	2.7490e-003	1.5944e-004
tblVehicleEF	HHD	0.91	0.42
tblVehicleEF	HHD	4.1000e-005	2.6509e-006
tblVehicleEF	HHD	0.07	0.08
tblVehicleEF	HHD	1.9200e-004	7.7684e-004
tblVehicleEF	HHD	0.05	1.0839e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	4.3370e-007
tblVehicleEF	HHD	6.7000e-005	4.1581e-006
tblVehicleEF	HHD	2.7490e-003	1.5944e-004
tblVehicleEF	HHD	1.05	0.48
tblVehicleEF	HHD	4.1000e-005	2.6509e-006
tblVehicleEF	HHD	0.11	0.10
tblVehicleEF	HHD	1.9200e-004	7.7684e-004
tblVehicleEF	HHD	0.05	1.1867e-006
tblVehicleEF	LDA	4.0430e-003	2.4275e-003
tblVehicleEF	LDA	5.4670e-003	0.05
tblVehicleEF	LDA	0.58	0.65

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tblVehicleEF	LDA	1.16	2.15
tblVehicleEF	LDA	255.91	264.02
tblVehicleEF	LDA	58.81	54.78
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.6140e-003	1.4413e-003
tblVehicleEF	LDA	2.2650e-003	1.9145e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.4880e-003	1.3279e-003
tblVehicleEF	LDA	2.0830e-003	1.7604e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	9.3165e-003
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.5630e-003	2.6119e-003
tblVehicleEF	LDA	6.0800e-004	5.4212e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.5900e-003	2.7357e-003

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDA	4.7470e-003	0.05
tblVehicleEF	LDA	0.71	0.77
tblVehicleEF	LDA	1.02	1.80
tblVehicleEF	LDA	278.73	285.50
tblVehicleEF	LDA	58.81	54.12
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.6140e-003	1.4413e-003
tblVehicleEF	LDA	2.2650e-003	1.9145e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.4880e-003	1.3279e-003
tblVehicleEF	LDA	2.0830e-003	1.7604e-003
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	2.7930e-003	2.8244e-003
tblVehicleEF	LDA	6.0500e-004	5.3561e-004
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.20



## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	3.8980e-003	2.3855e-003
tblVehicleEF	LDA	5.6140e-003	0.05
tblVehicleEF	LDA	0.54	0.62
tblVehicleEF	LDA	1.19	2.13
tblVehicleEF	LDA	249.57	260.40
tblVehicleEF	LDA	58.81	54.76
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.6140e-003	1.4413e-003
tblVehicleEF	LDA	2.2650e-003	1.9145e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.4880e-003	1.3279e-003
tblVehicleEF	LDA	2.0830e-003	1.7604e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.8140e-003	9.1467e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.4990e-003	2.5760e-003
tblVehicleEF	LDA	6.0800e-004	5.4186e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05

IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDT1	0.01	7.6986e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.46	1.55
tblVehicleEF	LDT1	3.40	2.46
tblVehicleEF	LDT1	315.98	313.01
tblVehicleEF	LDT1	72.28	66.81
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.5300e-003	2.2623e-003
tblVehicleEF	LDT1	3.6970e-003	2.9788e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.3290e-003	2.0820e-003
tblVehicleEF	LDT1	3.4000e-003	2.7391e-003
tblVehicleEF	LDT1	0.21	0.19
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.24	0.46
tblVehicleEF	LDT1	3.1780e-003	3.0974e-003
tblVehicleEF	LDT1	7.8300e-004	6.6113e-004
tblVehicleEF	LDT1	0.21	0.19

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tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.26	0.50
tblVehicleEF	LDT1	0.01	8.5808e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.76	1.83
tblVehicleEF	LDT1	2.99	2.05
tblVehicleEF	LDT1	343.19	335.41
tblVehicleEF	LDT1	72.28	65.94
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.5300e-003	2.2623e-003
tblVehicleEF	LDT1	3.6970e-003	2.9788e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.3290e-003	2.0820e-003
tblVehicleEF	LDT1	3.4000e-003	2.7391e-003
tblVehicleEF	LDT1	0.41	0.36
tblVehicleEF	LDT1	0.43	0.32
tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	3.4550e-003	3.3191e-003

IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDT1	7.7500e-004	6.5255e-004
tblVehicleEF	LDT1	0.41	0.36
tblVehicleEF	LDT1	0.43	0.32
tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.23	0.43
tblVehicleEF	LDT1	0.01	7.5727e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.37	1.50
tblVehicleEF	LDT1	3.46	2.44
tblVehicleEF	LDT1	307.88	309.22
tblVehicleEF	LDT1	72.28	66.78
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.5300e-003	2.2623e-003
tblVehicleEF	LDT1	3.6970e-003	2.9788e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.3290e-003	2.0820e-003
tblVehicleEF	LDT1	3.4000e-003	2.7391e-003
tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.39	0.31
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.01

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDT1	0.25	0.46
tblVehicleEF	LDT1	3.0960e-003	3.0600e-003
tblVehicleEF	LDT1	7.8400e-004	6.6081e-004
tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.39	0.31
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.23	1.02
tblVehicleEF	LDT1	0.27	0.50
tblVehicleEF	LDT2	5.6080e-003	4.0030e-003
tblVehicleEF	LDT2	7.2840e-003	0.07
tblVehicleEF	LDT2	0.76	0.93
tblVehicleEF	LDT2	1.53	2.77
tblVehicleEF	LDT2	355.02	334.40
tblVehicleEF	LDT2	81.24	71.60
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.6030e-003	1.4809e-003
tblVehicleEF	LDT2	2.3320e-003	1.9495e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.4740e-003	1.3631e-003
tblVehicleEF	LDT2	2.1450e-003	1.7925e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.06	0.08

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.5560e-003	3.3085e-003
tblVehicleEF	LDT2	8.3800e-004	7.0852e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	6.3630e-003	4.4905e-003
tblVehicleEF	LDT2	6.3270e-003	0.06
tblVehicleEF	LDT2	0.93	1.11
tblVehicleEF	LDT2	1.35	2.31
tblVehicleEF	LDT2	386.34	356.10
tblVehicleEF	LDT2	81.24	70.71
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.6030e-003	1.4809e-003
tblVehicleEF	LDT2	2.3320e-003	1.9495e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.4740e-003	1.3631e-003
tblVehicleEF	LDT2	2.1450e-003	1.7925e-003
tblVehicleEF	LDT2	0.14	0.17

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8710e-003	3.5232e-003
tblVehicleEF	LDT2	8.3500e-004	6.9977e-004
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.3900e-003	3.9361e-003
tblVehicleEF	LDT2	7.4940e-003	0.07
tblVehicleEF	LDT2	0.71	0.90
tblVehicleEF	LDT2	1.57	2.75
tblVehicleEF	LDT2	345.65	330.74
tblVehicleEF	LDT2	81.24	71.57
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.6030e-003	1.4809e-003
tblVehicleEF	LDT2	2.3320e-003	1.9495e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.4740e-003	1.3631e-003

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDT2	2.1450e-003	1.7925e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.4620e-003	3.2722e-003
tblVehicleEF	LDT2	8.3900e-004	7.0821e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LHD1	5.4460e-003	4.7711e-003
tblVehicleEF	LHD1	0.01	5.3525e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.96	0.72
tblVehicleEF	LHD1	2.41	0.95
tblVehicleEF	LHD1	9.26	9.49
tblVehicleEF	LHD1	607.95	635.36
tblVehicleEF	LHD1	30.36	10.31
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.21	1.68
tblVehicleEF	LHD1	9.7200e-004	9.9729e-004



## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.2853e-004
tblVehicleEF	LHD1	9.3000e-004	9.5415e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5390e-003	2.5132e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1012e-004
tblVehicleEF	LHD1	3.8710e-003	2.6459e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9010e-003	1.3629e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.48
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.1676e-005
tblVehicleEF	LHD1	5.9620e-003	6.1767e-003
tblVehicleEF	LHD1	3.4900e-004	1.0205e-004
tblVehicleEF	LHD1	3.8710e-003	2.6459e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9010e-003	1.3629e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.31	0.48
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.4460e-003	4.7847e-003

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LHD1	0.01	5.4445e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.97	0.74
tblVehicleEF	LHD1	2.29	0.90
tblVehicleEF	LHD1	9.26	9.49
tblVehicleEF	LHD1	607.95	635.38
tblVehicleEF	LHD1	30.36	10.22
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.08	1.58
tblVehicleEF	LHD1	9.7200e-004	9.9729e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.2853e-004
tblVehicleEF	LHD1	9.3000e-004	9.5415e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5390e-003	2.5132e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1012e-004
tblVehicleEF	LHD1	7.2450e-003	4.7126e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.6380e-003	2.6331e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.32	0.48
tblVehicleEF	LHD1	0.25	0.07

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LHD1	9.3000e-005	9.1676e-005
tblVehicleEF	LHD1	5.9620e-003	6.1769e-003
tblVehicleEF	LHD1	3.4700e-004	1.0116e-004
tblVehicleEF	LHD1	7.2450e-003	4.7126e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.6380e-003	2.6331e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.32	0.48
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.4460e-003	4.7735e-003
tblVehicleEF	LHD1	0.01	5.3625e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.96	0.73
tblVehicleEF	LHD1	2.41	0.94
tblVehicleEF	LHD1	9.26	9.49
tblVehicleEF	LHD1	607.95	635.36
tblVehicleEF	LHD1	30.36	10.30
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.18	1.65
tblVehicleEF	LHD1	9.7200e-004	9.9729e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.2853e-004
tblVehicleEF	LHD1	9.3000e-004	9.5415e-004

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5390e-003	2.5132e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1012e-004
tblVehicleEF	LHD1	3.4570e-003	2.8041e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7350e-003	1.4343e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.52
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.1676e-005
tblVehicleEF	LHD1	5.9620e-003	6.1767e-003
tblVehicleEF	LHD1	3.4900e-004	1.0189e-004
tblVehicleEF	LHD1	3.4570e-003	2.8041e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7350e-003	1.4343e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.33	0.52
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD2	3.6660e-003	2.9071e-003
tblVehicleEF	LHD2	4.5290e-003	3.7987e-003
tblVehicleEF	LHD2	8.3110e-003	8.1462e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.50	0.52
tblVehicleEF	LHD2	1.15	0.51

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LHD2	14.48	15.14
tblVehicleEF	LHD2	604.20	629.09
tblVehicleEF	LHD2	23.56	6.61
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.71	1.83
tblVehicleEF	LHD2	1.3360e-003	1.5018e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.0545e-004
tblVehicleEF	LHD2	1.2780e-003	1.4369e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6970e-003	2.7369e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	9.6959e-005
tblVehicleEF	LHD2	1.4980e-003	1.2263e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7800e-004	6.4826e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4445e-004
tblVehicleEF	LHD2	5.8740e-003	6.0523e-003
tblVehicleEF	LHD2	2.5700e-004	6.5406e-005
tblVehicleEF	LHD2	1.4980e-003	1.2263e-003
tblVehicleEF	LHD2	0.04	0.04

IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7800e-004	6.4826e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.22
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	3.6660e-003	2.9149e-003
tblVehicleEF	LHD2	4.5800e-003	3.8275e-003
tblVehicleEF	LHD2	8.0210e-003	7.8341e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.51	0.52
tblVehicleEF	LHD2	1.10	0.48
tblVehicleEF	LHD2	14.48	15.14
tblVehicleEF	LHD2	604.20	629.09
tblVehicleEF	LHD2	23.56	6.56
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.62	1.73
tblVehicleEF	LHD2	1.3360e-003	1.5018e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.0545e-004
tblVehicleEF	LHD2	1.2780e-003	1.4369e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6970e-003	2.7369e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	9.6959e-005
tblVehicleEF	LHD2	2.8320e-003	2.1864e-003

IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.4720e-003	1.2508e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4445e-004
tblVehicleEF	LHD2	5.8740e-003	6.0524e-003
tblVehicleEF	LHD2	2.5600e-004	6.4938e-005
tblVehicleEF	LHD2	2.8320e-003	2.1864e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4720e-003	1.2508e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.22
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	3.6660e-003	2.9085e-003
tblVehicleEF	LHD2	4.5170e-003	3.8023e-003
tblVehicleEF	LHD2	8.3600e-003	8.0900e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.50	0.52
tblVehicleEF	LHD2	1.16	0.50
tblVehicleEF	LHD2	14.48	15.14
tblVehicleEF	LHD2	604.20	629.09
tblVehicleEF	LHD2	23.56	6.60
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.70	1.81

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tblVehicleEF	LHD2	1.3360e-003	1.5018e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.0545e-004
tblVehicleEF	LHD2	1.2780e-003	1.4369e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6970e-003	2.7369e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	9.6959e-005
tblVehicleEF	LHD2	1.1910e-003	1.2710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6000e-004	6.7445e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.24
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4445e-004
tblVehicleEF	LHD2	5.8740e-003	6.0523e-003
tblVehicleEF	LHD2	2.5700e-004	6.5323e-005
tblVehicleEF	LHD2	1.1910e-003	1.2710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6000e-004	6.7445e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.24
tblVehicleEF	LHD2	0.12	0.04



## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.52	19.50
tblVehicleEF	MCY	9.67	8.60
tblVehicleEF	MCY	165.74	207.81
tblVehicleEF	MCY	46.23	60.96
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	1.7750e-003	1.7168e-003
tblVehicleEF	MCY	3.4010e-003	2.8688e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.6600e-003	1.6067e-003
tblVehicleEF	MCY	3.2060e-003	2.7030e-003
tblVehicleEF	MCY	1.69	1.42
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.08	1.85
tblVehicleEF	MCY	2.0380e-003	2.0565e-003
tblVehicleEF	MCY	6.8100e-004	6.0328e-004
tblVehicleEF	MCY	1.69	1.42
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.65	2.64

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tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.26	2.01
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.23	19.46
tblVehicleEF	MCY	9.11	7.90
tblVehicleEF	MCY	165.74	207.59
tblVehicleEF	MCY	46.23	59.07
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	1.7750e-003	1.7168e-003
tblVehicleEF	MCY	3.4010e-003	2.8688e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.6600e-003	1.6067e-003
tblVehicleEF	MCY	3.2060e-003	2.7030e-003
tblVehicleEF	MCY	3.35	2.73
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.13	2.10
tblVehicleEF	MCY	0.57	1.84
tblVehicleEF	MCY	1.86	1.62
tblVehicleEF	MCY	2.0490e-003	2.0543e-003
tblVehicleEF	MCY	6.6500e-004	5.8457e-004
tblVehicleEF	MCY	3.35	2.73
tblVehicleEF	MCY	1.24	1.09

IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.62	2.59
tblVehicleEF	MCY	0.57	1.84
tblVehicleEF	MCY	2.02	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	18.91
tblVehicleEF	MCY	9.62	8.38
tblVehicleEF	MCY	165.74	206.80
tblVehicleEF	MCY	46.23	60.47
tblVehicleEF	MCY	1.12	1.10
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	1.7750e-003	1.7168e-003
tblVehicleEF	MCY	3.4010e-003	2.8688e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.6600e-003	1.6067e-003
tblVehicleEF	MCY	3.2060e-003	2.7030e-003
tblVehicleEF	MCY	1.60	1.63
tblVehicleEF	MCY	1.05	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.15	2.13
tblVehicleEF	MCY	0.65	2.13
tblVehicleEF	MCY	2.08	1.81
tblVehicleEF	MCY	2.0310e-003	2.0465e-003
tblVehicleEF	MCY	6.8100e-004	5.9842e-004

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MCY	1.60	1.63
tblVehicleEF	MCY	1.05	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.64	2.62
tblVehicleEF	MCY	0.65	2.13
tblVehicleEF	MCY	2.27	1.97
tblVehicleEF	MDV	0.01	5.5311e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.42	1.15
tblVehicleEF	MDV	3.18	3.31
tblVehicleEF	MDV	488.89	418.28
tblVehicleEF	MDV	110.15	88.92
tblVehicleEF	MDV	0.17	0.12
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.7110e-003	1.5592e-003
tblVehicleEF	MDV	2.4630e-003	2.0458e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.5780e-003	1.4389e-003
tblVehicleEF	MDV	2.2660e-003	1.8823e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.25	0.45

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tblVehicleEF	MDV	4.9000e-003	4.1357e-003
tblVehicleEF	MDV	1.1570e-003	8.7994e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.27	0.50
tblVehicleEF	MDV	0.01	6.1666e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.73	1.36
tblVehicleEF	MDV	2.81	2.77
tblVehicleEF	MDV	530.71	441.48
tblVehicleEF	MDV	110.15	87.84
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.7110e-003	1.5592e-003
tblVehicleEF	MDV	2.4630e-003	2.0458e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.5780e-003	1.4389e-003
tblVehicleEF	MDV	2.2660e-003	1.8823e-003
tblVehicleEF	MDV	0.22	0.20
tblVehicleEF	MDV	0.23	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.04	0.03

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tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	5.3230e-003	4.3652e-003
tblVehicleEF	MDV	1.1510e-003	8.6926e-004
tblVehicleEF	MDV	0.22	0.20
tblVehicleEF	MDV	0.23	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.23	0.42
tblVehicleEF	MDV	0.01	5.4334e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.33	1.11
tblVehicleEF	MDV	3.24	3.29
tblVehicleEF	MDV	476.42	414.36
tblVehicleEF	MDV	110.15	88.88
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.7110e-003	1.5592e-003
tblVehicleEF	MDV	2.4630e-003	2.0458e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.5780e-003	1.4389e-003
tblVehicleEF	MDV	2.2660e-003	1.8823e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18

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tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.55
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.7750e-003	4.0969e-003
tblVehicleEF	MDV	1.1590e-003	8.7956e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.13	0.55
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MH	0.03	3.3935e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.70	0.35
tblVehicleEF	MH	5.98	0.00
tblVehicleEF	MH	1,002.10	942.43
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.67	4.53
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.15
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00

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tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	9.9460e-003	8.9094e-003
tblVehicleEF	MH	6.8100e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.03	3.3935e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.78	0.35
tblVehicleEF	MH	5.56	0.00
tblVehicleEF	MH	1,002.10	942.43
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.55	4.28
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.15
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2460e-003	4.0000e-003



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tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	2.87	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.06	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	9.9470e-003	8.9094e-003
tblVehicleEF	MH	6.7400e-004	0.00
tblVehicleEF	MH	2.87	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.06	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3935e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.70	0.35
tblVehicleEF	MH	6.02	0.00
tblVehicleEF	MH	1,002.10	942.43
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.65	4.46
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.15
tblVehicleEF	MH	1.0860e-003	0.00

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tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	1.58	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	9.9460e-003	8.9094e-003
tblVehicleEF	MH	6.8200e-004	0.00
tblVehicleEF	MH	1.58	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MHD	0.02	2.7460e-003
tblVehicleEF	MHD	3.7220e-003	5.6867e-003
tblVehicleEF	MHD	0.06	7.1017e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.28	0.52
tblVehicleEF	MHD	6.06	0.85
tblVehicleEF	MHD	151.96	73.08
tblVehicleEF	MHD	1,066.63	977.33
tblVehicleEF	MHD	55.49	7.02

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MHD	0.65	0.69
tblVehicleEF	MHD	0.99	2.47
tblVehicleEF	MHD	1.0680e-003	2.4553e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.4490e-003	0.09
tblVehicleEF	MHD	7.8800e-004	8.3075e-005
tblVehicleEF	MHD	1.0220e-003	2.3490e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	7.6384e-005
tblVehicleEF	MHD	1.7450e-003	4.7261e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.5800e-004	2.4808e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	MHD	1.4610e-003	6.9264e-004
tblVehicleEF	MHD	0.01	9.2823e-003
tblVehicleEF	MHD	6.6100e-004	6.9447e-005
tblVehicleEF	MHD	1.7450e-003	4.7261e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.5800e-004	2.4808e-004
tblVehicleEF	MHD	0.04	0.13

IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.40	0.04
tblVehicleEF	MHD	0.02	2.6082e-003
tblVehicleEF	MHD	3.7740e-003	5.7084e-003
tblVehicleEF	MHD	0.05	6.8222e-003
tblVehicleEF	MHD	0.26	0.26
tblVehicleEF	MHD	0.28	0.52
tblVehicleEF	MHD	5.78	0.80
tblVehicleEF	MHD	160.96	74.59
tblVehicleEF	MHD	1,066.63	977.34
tblVehicleEF	MHD	55.49	6.94
tblVehicleEF	MHD	0.67	0.70
tblVehicleEF	MHD	0.93	2.33
tblVehicleEF	MHD	9.0000e-004	2.0724e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.4490e-003	0.09
tblVehicleEF	MHD	7.8800e-004	8.3075e-005
tblVehicleEF	MHD	8.6100e-004	1.9827e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	7.6384e-005
tblVehicleEF	MHD	3.3760e-003	8.5308e-004
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.6840e-003	4.9480e-004

IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	1.5460e-003	7.0697e-004
tblVehicleEF	MHD	0.01	9.2823e-003
tblVehicleEF	MHD	6.5600e-004	6.8643e-005
tblVehicleEF	MHD	3.3760e-003	8.5308e-004
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	1.6840e-003	4.9480e-004
tblVehicleEF	MHD	0.04	0.13
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.39	0.04
tblVehicleEF	MHD	0.02	2.9480e-003
tblVehicleEF	MHD	3.6890e-003	5.6878e-003
tblVehicleEF	MHD	0.06	7.0368e-003
tblVehicleEF	MHD	0.49	0.40
tblVehicleEF	MHD	0.27	0.52
tblVehicleEF	MHD	6.14	0.84
tblVehicleEF	MHD	139.53	71.00
tblVehicleEF	MHD	1,066.63	977.33
tblVehicleEF	MHD	55.49	7.00
tblVehicleEF	MHD	0.62	0.67
tblVehicleEF	MHD	0.98	2.43
tblVehicleEF	MHD	1.2990e-003	2.9840e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MHD	6.4490e-003	0.09
tblVehicleEF	MHD	7.8800e-004	8.3075e-005
tblVehicleEF	MHD	1.2430e-003	2.8549e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	7.6384e-005
tblVehicleEF	MHD	1.3320e-003	5.0561e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.7900e-004	2.6308e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	MHD	1.3440e-003	6.7281e-004
tblVehicleEF	MHD	0.01	9.2823e-003
tblVehicleEF	MHD	6.6300e-004	6.9296e-005
tblVehicleEF	MHD	1.3320e-003	5.0561e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.7900e-004	2.6308e-004
tblVehicleEF	MHD	0.04	0.13
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.41	0.04
tblVehicleEF	OBUS	0.01	8.8304e-003
tblVehicleEF	OBUS	8.0950e-003	9.8616e-003
tblVehicleEF	OBUS	0.03	0.03

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.54	1.11
tblVehicleEF	OBUS	6.17	2.80
tblVehicleEF	OBUS	75.04	68.90
tblVehicleEF	OBUS	1,098.07	1,401.75
tblVehicleEF	OBUS	70.10	21.77
tblVehicleEF	OBUS	0.35	0.41
tblVehicleEF	OBUS	1.12	1.96
tblVehicleEF	OBUS	1.2100e-004	1.7088e-003
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	6.0450e-003	0.05
tblVehicleEF	OBUS	8.2300e-004	2.0944e-004
tblVehicleEF	OBUS	1.1600e-004	1.6349e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.9258e-004
tblVehicleEF	OBUS	2.1800e-003	2.6435e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3000e-004	1.1509e-003
tblVehicleEF	OBUS	0.04	0.10
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.13
tblVehicleEF	OBUS	7.2800e-004	6.5786e-004
tblVehicleEF	OBUS	0.01	0.01

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	OBUS	8.0900e-004	2.1540e-004
tblVehicleEF	OBUS	2.1800e-003	2.6435e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3000e-004	1.1509e-003
tblVehicleEF	OBUS	0.05	0.13
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.42	0.15
tblVehicleEF	OBUS	0.01	8.8556e-003
tblVehicleEF	OBUS	8.2540e-003	0.01
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.46
tblVehicleEF	OBUS	0.55	1.14
tblVehicleEF	OBUS	5.76	2.60
tblVehicleEF	OBUS	78.48	69.40
tblVehicleEF	OBUS	1,098.07	1,401.78
tblVehicleEF	OBUS	70.10	21.43
tblVehicleEF	OBUS	0.36	0.41
tblVehicleEF	OBUS	1.04	1.83
tblVehicleEF	OBUS	1.0200e-004	1.4437e-003
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	6.0450e-003	0.05
tblVehicleEF	OBUS	8.2300e-004	2.0944e-004
tblVehicleEF	OBUS	9.8000e-005	1.3812e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003



## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.9258e-004
tblVehicleEF	OBUS	4.0690e-003	4.6625e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7890e-003	2.2351e-003
tblVehicleEF	OBUS	0.04	0.10
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	OBUS	7.6100e-004	6.6259e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0200e-004	2.1210e-004
tblVehicleEF	OBUS	4.0690e-003	4.6625e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7890e-003	2.2351e-003
tblVehicleEF	OBUS	0.05	0.13
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	OBUS	0.01	8.8320e-003
tblVehicleEF	OBUS	8.0660e-003	9.8763e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.51
tblVehicleEF	OBUS	0.54	1.12
tblVehicleEF	OBUS	6.22	2.79
tblVehicleEF	OBUS	70.30	68.21
tblVehicleEF	OBUS	1,098.07	1,401.75

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	OBUS	70.10	21.75
tblVehicleEF	OBUS	0.34	0.41
tblVehicleEF	OBUS	1.11	1.93
tblVehicleEF	OBUS	1.4700e-004	2.0750e-003
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	6.0450e-003	0.05
tblVehicleEF	OBUS	8.2300e-004	2.0944e-004
tblVehicleEF	OBUS	1.4100e-004	1.9852e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.9258e-004
tblVehicleEF	OBUS	1.8870e-003	2.7905e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.5400e-004	1.2289e-003
tblVehicleEF	OBUS	0.04	0.10
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.39	0.13
tblVehicleEF	OBUS	6.8300e-004	6.5131e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1000e-004	2.1523e-004
tblVehicleEF	OBUS	1.8870e-003	2.7905e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	8.5400e-004	1.2289e-003

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	OBUS	0.05	0.13
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.42	0.15
tblVehicleEF	SBUS	0.84	0.09
tblVehicleEF	SBUS	0.01	7.1350e-003
tblVehicleEF	SBUS	0.06	7.9942e-003
tblVehicleEF	SBUS	7.83	3.38
tblVehicleEF	SBUS	0.64	0.59
tblVehicleEF	SBUS	6.66	1.10
tblVehicleEF	SBUS	1,146.29	374.62
tblVehicleEF	SBUS	1,103.40	1,117.10
tblVehicleEF	SBUS	53.92	6.97
tblVehicleEF	SBUS	10.00	3.53
tblVehicleEF	SBUS	4.65	4.80
tblVehicleEF	SBUS	0.01	3.9568e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.4077e-005
tblVehicleEF	SBUS	0.01	3.7856e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6950e-003	2.6443e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	4.0527e-005
tblVehicleEF	SBUS	4.6830e-003	1.3761e-003
tblVehicleEF	SBUS	0.03	9.8813e-003
tblVehicleEF	SBUS	0.94	0.41

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	SBUS	2.1770e-003	6.8647e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.5825e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5500e-004	6.8974e-005
tblVehicleEF	SBUS	4.6830e-003	1.3761e-003
tblVehicleEF	SBUS	0.03	9.8813e-003
tblVehicleEF	SBUS	1.35	0.59
tblVehicleEF	SBUS	2.1770e-003	6.8647e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.40	0.05
tblVehicleEF	SBUS	0.84	0.09
tblVehicleEF	SBUS	0.01	7.2252e-003
tblVehicleEF	SBUS	0.05	6.6642e-003
tblVehicleEF	SBUS	7.71	3.33
tblVehicleEF	SBUS	0.65	0.60
tblVehicleEF	SBUS	4.83	0.79
tblVehicleEF	SBUS	1,198.60	385.14
tblVehicleEF	SBUS	1,103.40	1,117.12
tblVehicleEF	SBUS	53.92	6.45
tblVehicleEF	SBUS	10.32	3.62
tblVehicleEF	SBUS	4.37	4.52
tblVehicleEF	SBUS	9.1190e-003	3.3421e-003
tblVehicleEF	SBUS	0.74	0.74

IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.4077e-005
tblVehicleEF	SBUS	8.7240e-003	3.1975e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6950e-003	2.6443e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	4.0527e-005
tblVehicleEF	SBUS	8.4640e-003	2.4143e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	4.0830e-003	1.2843e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.04
tblVehicleEF	SBUS	0.01	3.6819e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2400e-004	6.3868e-005
tblVehicleEF	SBUS	8.4640e-003	2.4143e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.35	0.59
tblVehicleEF	SBUS	4.0830e-003	1.2843e-003
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.04
tblVehicleEF	SBUS	0.84	0.09
tblVehicleEF	SBUS	0.01	7.1336e-003

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	SBUS	0.07	8.1369e-003
tblVehicleEF	SBUS	8.00	3.43
tblVehicleEF	SBUS	0.63	0.59
tblVehicleEF	SBUS	7.02	1.12
tblVehicleEF	SBUS	1,074.07	360.11
tblVehicleEF	SBUS	1,103.40	1,117.10
tblVehicleEF	SBUS	53.92	7.01
tblVehicleEF	SBUS	9.56	3.40
tblVehicleEF	SBUS	4.60	4.73
tblVehicleEF	SBUS	0.01	4.8056e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.4077e-005
tblVehicleEF	SBUS	0.01	4.5978e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6950e-003	2.6443e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	4.0527e-005
tblVehicleEF	SBUS	4.1680e-003	1.3129e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.94	0.41
tblVehicleEF	SBUS	2.1000e-003	7.1176e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.38	0.05
tblVehicleEF	SBUS	0.01	3.4454e-003

IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6100e-004	6.9371e-005
tblVehicleEF	SBUS	4.1680e-003	1.3129e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.35	0.59
tblVehicleEF	SBUS	2.1000e-003	7.1176e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.51	3.04
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	8.45	23.57
tblVehicleEF	UBUS	15.26	1.95
tblVehicleEF	UBUS	1,822.40	1,641.55
tblVehicleEF	UBUS	153.45	23.43
tblVehicleEF	UBUS	4.95	0.30
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.1611e-003
tblVehicleEF	UBUS	1.4200e-003	2.0913e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0573e-003
tblVehicleEF	UBUS	0.05	2.0479e-003
tblVehicleEF	UBUS	1.3060e-003	1.9228e-004
tblVehicleEF	UBUS	9.7430e-003	2.3414e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	4.7860e-003	9.2419e-004

## IDI Rider 2 &amp; 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	UBUS	0.52	0.05
tblVehicleEF	UBUS	0.02	0.06
tblVehicleEF	UBUS	1.17	0.10
tblVehicleEF	UBUS	9.9960e-003	6.3901e-003
tblVehicleEF	UBUS	1.8100e-003	2.3183e-004
tblVehicleEF	UBUS	9.7430e-003	2.3414e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	4.7860e-003	9.2419e-004
tblVehicleEF	UBUS	2.08	3.11
tblVehicleEF	UBUS	0.02	0.06
tblVehicleEF	UBUS	1.28	0.10
tblVehicleEF	UBUS	1.52	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	8.53	23.58
tblVehicleEF	UBUS	13.06	1.66
tblVehicleEF	UBUS	1,822.40	1,641.55
tblVehicleEF	UBUS	153.45	22.94
tblVehicleEF	UBUS	4.62	0.29
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.1611e-003
tblVehicleEF	UBUS	1.4200e-003	2.0913e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0573e-003
tblVehicleEF	UBUS	0.05	2.0479e-003
tblVehicleEF	UBUS	1.3060e-003	1.9228e-004
tblVehicleEF	UBUS	0.02	4.1836e-003



IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

tblVehicleEF	UBUS	0.14	0.02
tblVehicleEF	UBUS	9.6600e-003	1.8853e-003
tblVehicleEF	UBUS	0.53	0.05
tblVehicleEF	UBUS	0.02	0.06
tblVehicleEF	UBUS	1.06	0.09
tblVehicleEF	UBUS	9.9970e-003	6.3902e-003
tblVehicleEF	UBUS	1.7720e-003	2.2697e-004
tblVehicleEF	UBUS	0.02	4.1836e-003
tblVehicleEF	UBUS	0.14	0.02
tblVehicleEF	UBUS	9.6600e-003	1.8853e-003
tblVehicleEF	UBUS	2.09	3.11
tblVehicleEF	UBUS	0.02	0.06
tblVehicleEF	UBUS	1.17	0.10
tblVehicleEF	UBUS	1.51	3.04
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	8.44	23.57
tblVehicleEF	UBUS	15.44	1.93
tblVehicleEF	UBUS	1,822.40	1,641.55
tblVehicleEF	UBUS	153.45	23.40
tblVehicleEF	UBUS	4.92	0.30
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.1611e-003
tblVehicleEF	UBUS	1.4200e-003	2.0913e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0573e-003
tblVehicleEF	UBUS	0.05	2.0479e-003

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tblVehicleEF	UBUS	1.3060e-003	1.9228e-004
tblVehicleEF	UBUS	8.9770e-003	2.4593e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.3820e-003	9.7705e-004
tblVehicleEF	UBUS	0.52	0.05
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	1.18	0.10
tblVehicleEF	UBUS	9.9960e-003	6.3901e-003
tblVehicleEF	UBUS	1.8130e-003	2.3157e-004
tblVehicleEF	UBUS	8.9770e-003	2.4593e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.3820e-003	9.7705e-004
tblVehicleEF	UBUS	2.08	3.11
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	1.29	0.10
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00

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tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	317,610,312.50	0.00

## 2.0 Emissions Summary

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IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	12-1-2020	2-28-2021	2.1239	1.2256
2	3-1-2021	5-31-2021	2.9481	2.4617
3	6-1-2021	8-31-2021	2.9514	2.4650
4	9-1-2021	9-30-2021	0.8825	0.7373
		Highest	2.9514	2.4650

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	5.7171	3.7000e-004	0.0401	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0777	0.0777	2.1000e-004	0.0000	0.0828
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.7171</b>	<b>3.7000e-004</b>	<b>0.0401</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.0777</b>	<b>0.0777</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.0828</b>

IDI Rider 2 & 4 (Construction - Mitigated) - 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	5.7171	3.7000e-004	0.0401	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0777	0.0777	2.1000e-004	0.0000	0.0828
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.7171</b>	<b>3.7000e-004</b>	<b>0.0401</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.0777</b>	<b>0.0777</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.0828</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/1/2020	12/28/2020	5	20	
2	Grading	Grading	12/29/2020	2/22/2021	5	40	
3	Building Construction	Building Construction	2/23/2021	9/27/2021	5	155	
4	Paving	Paving	9/28/2021	12/27/2021	5	65	
5	Architectural Coating	Architectural Coating	11/2/2021	12/27/2021	5	40	

**Acres of Grading (Site Preparation Phase): 70**

**Acres of Grading (Grading Phase): 160**

**Acres of Paving: 33.25**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,060,174; Non-Residential Outdoor: 686,725; Striped Parking Area: 86,906 (Architectural Coating – sqft)**

**OffRoad Equipment**

IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Crawler Tractors	3	8.00	212	0.43
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	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	8.00	78	0.48

Trips and VMT



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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,185.00	463.00	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	237.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Site Preparation - 2020**

**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					0.2178	0.0000	0.2178	0.1033	0.0000	0.1033	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0555	0.6379	0.2240	5.7000e-004		0.0279	0.0279		0.0257	0.0257	0.0000	50.1091	50.1091	0.0162	0.0000	50.5142
<b>Total</b>	<b>0.0555</b>	<b>0.6379</b>	<b>0.2240</b>	<b>5.7000e-004</b>	<b>0.2178</b>	<b>0.0279</b>	<b>0.2457</b>	<b>0.1033</b>	<b>0.0257</b>	<b>0.1290</b>	<b>0.0000</b>	<b>50.1091</b>	<b>50.1091</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.5142</b>

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**3.2 Site Preparation - 2020**

**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	8.3000e-004	5.8000e-004	6.1900e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6553	1.6553	4.0000e-005	0.0000	1.6563
<b>Total</b>	<b>8.3000e-004</b>	<b>5.8000e-004</b>	<b>6.1900e-003</b>	<b>2.0000e-005</b>	<b>1.9800e-003</b>	<b>1.0000e-005</b>	<b>1.9900e-003</b>	<b>5.3000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.6553</b>	<b>1.6553</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.6563</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					0.0849	0.0000	0.0849	0.0403	0.0000	0.0403	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0140	0.2705	0.3031	5.7000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	50.1090	50.1090	0.0162	0.0000	50.5142
<b>Total</b>	<b>0.0140</b>	<b>0.2705</b>	<b>0.3031</b>	<b>5.7000e-004</b>	<b>0.0849</b>	<b>0.0103</b>	<b>0.0952</b>	<b>0.0403</b>	<b>0.0103</b>	<b>0.0506</b>	<b>0.0000</b>	<b>50.1090</b>	<b>50.1090</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.5142</b>

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**3.2 Site Preparation - 2020**

**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	8.3000e-004	5.8000e-004	6.1900e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6553	1.6553	4.0000e-005	0.0000	1.6563
<b>Total</b>	<b>8.3000e-004</b>	<b>5.8000e-004</b>	<b>6.1900e-003</b>	<b>2.0000e-005</b>	<b>1.9800e-003</b>	<b>1.0000e-005</b>	<b>1.9900e-003</b>	<b>5.3000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.6553</b>	<b>1.6553</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.6563</b>

**3.3 Grading - 2020**

**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					0.0939	0.0000	0.0939	0.0141	0.0000	0.0141	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7800e-003	0.0913	0.0486	1.1000e-004		3.7000e-003	3.7000e-003		3.4100e-003	3.4100e-003	0.0000	9.4235	9.4235	3.0500e-003	0.0000	9.4997
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0913</b>	<b>0.0486</b>	<b>1.1000e-004</b>	<b>0.0939</b>	<b>3.7000e-003</b>	<b>0.0976</b>	<b>0.0141</b>	<b>3.4100e-003</b>	<b>0.0175</b>	<b>0.0000</b>	<b>9.4235</b>	<b>9.4235</b>	<b>3.0500e-003</b>	<b>0.0000</b>	<b>9.4997</b>

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**3.3 Grading - 2020**

**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	1.4000e-004	1.0000e-004	1.0300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2759	0.2759	1.0000e-005	0.0000	0.2761
<b>Total</b>	<b>1.4000e-004</b>	<b>1.0000e-004</b>	<b>1.0300e-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>0.2759</b>	<b>0.2759</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2761</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					0.0366	0.0000	0.0366	5.5100e-003	0.0000	5.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1100e-003	0.0557	0.0581	1.1000e-004		2.1300e-003	2.1300e-003		2.1100e-003	2.1100e-003	0.0000	9.4235	9.4235	3.0500e-003	0.0000	9.4997
<b>Total</b>	<b>3.1100e-003</b>	<b>0.0557</b>	<b>0.0581</b>	<b>1.1000e-004</b>	<b>0.0366</b>	<b>2.1300e-003</b>	<b>0.0387</b>	<b>5.5100e-003</b>	<b>2.1100e-003</b>	<b>7.6200e-003</b>	<b>0.0000</b>	<b>9.4235</b>	<b>9.4235</b>	<b>3.0500e-003</b>	<b>0.0000</b>	<b>9.4997</b>

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**3.3 Grading - 2020**

**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	1.4000e-004	1.0000e-004	1.0300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2759	0.2759	1.0000e-005	0.0000	0.2761
<b>Total</b>	<b>1.4000e-004</b>	<b>1.0000e-004</b>	<b>1.0300e-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>0.2759</b>	<b>0.2759</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2761</b>

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1963	0.0000	0.1963	0.0704	0.0000	0.0704	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0910	1.0461	0.5777	1.3200e-003		0.0423	0.0423		0.0389	0.0389	0.0000	116.2379	116.2379	0.0376	0.0000	117.1778
<b>Total</b>	<b>0.0910</b>	<b>1.0461</b>	<b>0.5777</b>	<b>1.3200e-003</b>	<b>0.1963</b>	<b>0.0423</b>	<b>0.2385</b>	<b>0.0704</b>	<b>0.0389</b>	<b>0.1093</b>	<b>0.0000</b>	<b>116.2379</b>	<b>116.2379</b>	<b>0.0376</b>	<b>0.0000</b>	<b>117.1778</b>

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**3.3 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	1.5900e-003	1.0700e-003	0.0117	4.0000e-005	4.0700e-003	2.0000e-005	4.0900e-003	1.0800e-003	2.0000e-005	1.1000e-003	0.0000	3.2887	3.2887	8.0000e-005	0.0000	3.2907
<b>Total</b>	<b>1.5900e-003</b>	<b>1.0700e-003</b>	<b>0.0117</b>	<b>4.0000e-005</b>	<b>4.0700e-003</b>	<b>2.0000e-005</b>	<b>4.0900e-003</b>	<b>1.0800e-003</b>	<b>2.0000e-005</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>3.2887</b>	<b>3.2887</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>3.2907</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					0.0765	0.0000	0.0765	0.0275	0.0000	0.0275	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0379	0.6800	0.7150	1.3200e-003		0.0261	0.0261		0.0258	0.0258	0.0000	116.2378	116.2378	0.0376	0.0000	117.1776
<b>Total</b>	<b>0.0379</b>	<b>0.6800</b>	<b>0.7150</b>	<b>1.3200e-003</b>	<b>0.0765</b>	<b>0.0261</b>	<b>0.1026</b>	<b>0.0275</b>	<b>0.0258</b>	<b>0.0532</b>	<b>0.0000</b>	<b>116.2378</b>	<b>116.2378</b>	<b>0.0376</b>	<b>0.0000</b>	<b>117.1776</b>

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**3.3 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	1.5900e-003	1.0700e-003	0.0117	4.0000e-005	4.0700e-003	2.0000e-005	4.0900e-003	1.0800e-003	2.0000e-005	1.1000e-003	0.0000	3.2887	3.2887	8.0000e-005	0.0000	3.2907
<b>Total</b>	<b>1.5900e-003</b>	<b>1.0700e-003</b>	<b>0.0117</b>	<b>4.0000e-005</b>	<b>4.0700e-003</b>	<b>2.0000e-005</b>	<b>4.0900e-003</b>	<b>1.0800e-003</b>	<b>2.0000e-005</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>3.2887</b>	<b>3.2887</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>3.2907</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2413	2.6324	1.4101	3.3400e-003		0.1144	0.1144		0.1068	0.1068	0.0000	289.2725	289.2725	0.0788	0.0000	291.2426
<b>Total</b>	<b>0.2413</b>	<b>2.6324</b>	<b>1.4101</b>	<b>3.3400e-003</b>		<b>0.1144</b>	<b>0.1144</b>		<b>0.1068</b>	<b>0.1068</b>	<b>0.0000</b>	<b>289.2725</b>	<b>289.2725</b>	<b>0.0788</b>	<b>0.0000</b>	<b>291.2426</b>

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**3.4 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0856	3.3458	0.6437	9.1500e-003	0.2266	6.4000e-003	0.2330	0.0654	6.1200e-003	0.0715	0.0000	875.4368	875.4368	0.0668	0.0000	877.1064
Worker	0.3937	0.2653	2.8911	9.0300e-003	1.0094	6.0500e-003	1.0155	0.2680	5.5700e-003	0.2736	0.0000	816.2943	816.2943	0.0190	0.0000	816.7697
<b>Total</b>	<b>0.4794</b>	<b>3.6111</b>	<b>3.5348</b>	<b>0.0182</b>	<b>1.2360</b>	<b>0.0125</b>	<b>1.2485</b>	<b>0.3334</b>	<b>0.0117</b>	<b>0.3451</b>	<b>0.0000</b>	<b>1,691.7311</b>	<b>1,691.7311</b>	<b>0.0858</b>	<b>0.0000</b>	<b>1,693.8760</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	0.0830	1.6435	1.9104	3.3400e-003		0.0792	0.0792		0.0792	0.0792	0.0000	289.2721	289.2721	0.0788	0.0000	291.2423
<b>Total</b>	<b>0.0830</b>	<b>1.6435</b>	<b>1.9104</b>	<b>3.3400e-003</b>		<b>0.0792</b>	<b>0.0792</b>		<b>0.0792</b>	<b>0.0792</b>	<b>0.0000</b>	<b>289.2721</b>	<b>289.2721</b>	<b>0.0788</b>	<b>0.0000</b>	<b>291.2423</b>



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**3.4 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0856	3.3458	0.6437	9.1500e-003	0.2266	6.4000e-003	0.2330	0.0654	6.1200e-003	0.0715	0.0000	875.4368	875.4368	0.0668	0.0000	877.1064
Worker	0.3937	0.2653	2.8911	9.0300e-003	1.0094	6.0500e-003	1.0155	0.2680	5.5700e-003	0.2736	0.0000	816.2943	816.2943	0.0190	0.0000	816.7697
<b>Total</b>	<b>0.4794</b>	<b>3.6111</b>	<b>3.5348</b>	<b>0.0182</b>	<b>1.2360</b>	<b>0.0125</b>	<b>1.2485</b>	<b>0.3334</b>	<b>0.0117</b>	<b>0.3451</b>	<b>0.0000</b>	<b>1,691.7311</b>	<b>1,691.7311</b>	<b>0.0858</b>	<b>0.0000</b>	<b>1,693.8760</b>

**3.5 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0408	0.4199	0.4762	7.4000e-004		0.0220	0.0220		0.0203	0.0203	0.0000	65.0763	65.0763	0.0211	0.0000	65.6025
Paving	0.0325					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0733</b>	<b>0.4199</b>	<b>0.4762</b>	<b>7.4000e-004</b>		<b>0.0220</b>	<b>0.0220</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>65.0763</b>	<b>65.0763</b>	<b>0.0211</b>	<b>0.0000</b>	<b>65.6025</b>

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**3.5 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0900e-003	1.4100e-003	0.0154	5.0000e-005	5.3600e-003	3.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.3331	4.3331	1.0000e-004	0.0000	4.3357
<b>Total</b>	<b>2.0900e-003</b>	<b>1.4100e-003</b>	<b>0.0154</b>	<b>5.0000e-005</b>	<b>5.3600e-003</b>	<b>3.0000e-005</b>	<b>5.3900e-003</b>	<b>1.4200e-003</b>	<b>3.0000e-005</b>	<b>1.4500e-003</b>	<b>0.0000</b>	<b>4.3331</b>	<b>4.3331</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>4.3357</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	0.0182	0.3671	0.5621	7.4000e-004		0.0198	0.0198		0.0198	0.0198	0.0000	65.0762	65.0762	0.0211	0.0000	65.6024
Paving	0.0325					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0507</b>	<b>0.3671</b>	<b>0.5621</b>	<b>7.4000e-004</b>		<b>0.0198</b>	<b>0.0198</b>		<b>0.0198</b>	<b>0.0198</b>	<b>0.0000</b>	<b>65.0762</b>	<b>65.0762</b>	<b>0.0211</b>	<b>0.0000</b>	<b>65.6024</b>

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**3.5 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0900e-003	1.4100e-003	0.0154	5.0000e-005	5.3600e-003	3.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.3331	4.3331	1.0000e-004	0.0000	4.3357
<b>Total</b>	<b>2.0900e-003</b>	<b>1.4100e-003</b>	<b>0.0154</b>	<b>5.0000e-005</b>	<b>5.3600e-003</b>	<b>3.0000e-005</b>	<b>5.3900e-003</b>	<b>1.4200e-003</b>	<b>3.0000e-005</b>	<b>1.4500e-003</b>	<b>0.0000</b>	<b>4.3331</b>	<b>4.3331</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>4.3357</b>

**3.6 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8400e-003	0.0407	0.0485	8.0000e-005		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.0000	6.8087	6.8087	4.7000e-004	0.0000	6.8204
<b>Total</b>	<b>0.6626</b>	<b>0.0407</b>	<b>0.0485</b>	<b>8.0000e-005</b>		<b>2.5100e-003</b>	<b>2.5100e-003</b>		<b>2.5100e-003</b>	<b>2.5100e-003</b>	<b>0.0000</b>	<b>6.8087</b>	<b>6.8087</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>6.8204</b>

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**3.6 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0203	0.0137	0.1492	4.7000e-004	0.0521	3.1000e-004	0.0524	0.0138	2.9000e-004	0.0141	0.0000	42.1313	42.1313	9.8000e-004	0.0000	42.1559
<b>Total</b>	<b>0.0203</b>	<b>0.0137</b>	<b>0.1492</b>	<b>4.7000e-004</b>	<b>0.0521</b>	<b>3.1000e-004</b>	<b>0.0524</b>	<b>0.0138</b>	<b>2.9000e-004</b>	<b>0.0141</b>	<b>0.0000</b>	<b>42.1313</b>	<b>42.1313</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>42.1559</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	0.6567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5800e-003	0.0362	0.0489	8.0000e-005		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003	0.0000	6.8087	6.8087	4.7000e-004	0.0000	6.8204
<b>Total</b>	<b>0.6583</b>	<b>0.0362</b>	<b>0.0489</b>	<b>8.0000e-005</b>		<b>2.5400e-003</b>	<b>2.5400e-003</b>		<b>2.5400e-003</b>	<b>2.5400e-003</b>	<b>0.0000</b>	<b>6.8087</b>	<b>6.8087</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>6.8204</b>

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**3.6 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0203	0.0137	0.1492	4.7000e-004	0.0521	3.1000e-004	0.0524	0.0138	2.9000e-004	0.0141	0.0000	42.1313	42.1313	9.8000e-004	0.0000	42.1559
<b>Total</b>	<b>0.0203</b>	<b>0.0137</b>	<b>0.1492</b>	<b>4.7000e-004</b>	<b>0.0521</b>	<b>3.1000e-004</b>	<b>0.0524</b>	<b>0.0138</b>	<b>2.9000e-004</b>	<b>0.0141</b>	<b>0.0000</b>	<b>42.1313</b>	<b>42.1313</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>42.1559</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

IDI Rider 2 & 4 (Construction - Mitigated) - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix









## IDI Rider 2 &amp; 4 (Construction - Mitigated) - 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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

IDI Rider 2 & 4 (Construction - Mitigated) - 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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

IDI Rider 2 & 4 (Construction - Mitigated) - 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	5.7171	3.7000e-004	0.0401	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0777	0.0777	2.1000e-004	0.0000	0.0828
Unmitigated	5.7171	3.7000e-004	0.0401	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0777	0.0777	2.1000e-004	0.0000	0.0828

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0566					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.7500e-003	3.7000e-004	0.0401	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0777	0.0777	2.1000e-004	0.0000	0.0828
<b>Total</b>	<b>5.7171</b>	<b>3.7000e-004</b>	<b>0.0401</b>	<b>0.0000</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.0777</b>	<b>0.0777</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.0828</b>

IDI Rider 2 & 4 (Construction - Mitigated) - 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	0.6567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0566					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.7500e-003	3.7000e-004	0.0401	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0777	0.0777	2.1000e-004	0.0000	0.0828
<b>Total</b>	<b>5.7171</b>	<b>3.7000e-004</b>	<b>0.0401</b>	<b>0.0000</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.0777</b>	<b>0.0777</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.0828</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

IDI Rider 2 & 4 (Construction - Mitigated) - 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			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

IDI Rider 2 & 4 (Construction - Mitigated) - Riverside-South Coast County, Annual

Equipment Type	Number
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## 11.0 Vegetation

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**APPENDIX 4.4:**

**CALEEMOD PROJECT OPERATIONS ANNUAL EMISSIONS MODEL OUTPUTS**

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

**IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated)**  
**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,373.45	1000sqft	31.53	1,373,449.00	0
Other Asphalt Surfaces	874.22	1000sqft	20.07	874,218.00	0
Other Non-Asphalt Surfaces	368.62	1000sqft	8.46	368,616.00	0
Parking Lot	514.00	Space	4.72	205,600.00	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>	2021
<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**

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

## Project Characteristics -

Land Use - Total Project Area is 64.8 ac.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on ITE 10th Edition (2017)

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Water And Wastewater - Water Demand based on the Generation Rate of 0.75 (Demand/AFY) as per the PVCC SP EIR.

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results (2014)

Fleet Mix - Fleet Mix split between LDA, LDT1, LDT2, MDV, LHDT, MHDT, and HHDT

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	40.00	0.00
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHDT	0.07	0.20
tblFleetMix	LDA	0.54	0.42
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT2	0.19	0.14
tblFleetMix	LHDT1	0.02	0.05
tblFleetMix	LHDT2	5.1410e-003	0.00
tblFleetMix	MCY	4.5820e-003	0.00

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblFleetMix	MDV	0.12	0.09
tblFleetMix	MH	1.0380e-003	0.00
tblFleetMix	MHD	0.02	0.07
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	SBUS	9.4500e-004	0.00
tblFleetMix	UBUS	1.1830e-003	0.00
tblLandUse	LandUseSquareFeet	1,373,450.00	1,373,449.00
tblLandUse	LotAcreage	4.63	4.72
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	Electrical
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.43	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.10	2.1311e-007
tblVehicleEF	HHD	3.28	5.70
tblVehicleEF	HHD	0.46	0.43
tblVehicleEF	HHD	1.46	5.1287e-003
tblVehicleEF	HHD	6,485.38	1,098.23
tblVehicleEF	HHD	1,461.92	1,379.84
tblVehicleEF	HHD	4.62	0.04
tblVehicleEF	HHD	26.41	5.91
tblVehicleEF	HHD	2.69	3.40
tblVehicleEF	HHD	0.01	8.1205e-003

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.06
tblVehicleEF	HHD	3.8000e-005	6.9620e-007
tblVehicleEF	HHD	0.01	7.7692e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8102e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	6.4013e-007
tblVehicleEF	HHD	8.4000e-005	3.9431e-006
tblVehicleEF	HHD	2.5800e-003	1.4075e-004
tblVehicleEF	HHD	0.85	0.44
tblVehicleEF	HHD	4.8000e-005	2.4154e-006
tblVehicleEF	HHD	0.07	0.09
tblVehicleEF	HHD	1.8000e-004	7.3333e-004
tblVehicleEF	HHD	0.05	1.0921e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	4.3455e-007
tblVehicleEF	HHD	8.4000e-005	3.9431e-006
tblVehicleEF	HHD	2.5800e-003	1.4075e-004
tblVehicleEF	HHD	0.97	0.51
tblVehicleEF	HHD	4.8000e-005	2.4154e-006
tblVehicleEF	HHD	0.11	0.12
tblVehicleEF	HHD	1.8000e-004	7.3333e-004
tblVehicleEF	HHD	0.05	1.1957e-006
tblVehicleEF	HHD	1.35	0.02



## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.10	2.0331e-007
tblVehicleEF	HHD	2.39	5.56
tblVehicleEF	HHD	0.46	0.43
tblVehicleEF	HHD	1.39	4.8401e-003
tblVehicleEF	HHD	6,867.98	1,095.85
tblVehicleEF	HHD	1,461.92	1,379.84
tblVehicleEF	HHD	4.62	0.04
tblVehicleEF	HHD	27.25	5.75
tblVehicleEF	HHD	2.54	3.21
tblVehicleEF	HHD	0.01	7.5760e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.06
tblVehicleEF	HHD	3.8000e-005	6.9620e-007
tblVehicleEF	HHD	0.01	7.2482e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8102e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	6.4013e-007
tblVehicleEF	HHD	1.6300e-004	7.4470e-006
tblVehicleEF	HHD	2.9560e-003	1.5586e-004
tblVehicleEF	HHD	0.80	0.46
tblVehicleEF	HHD	9.2000e-005	5.0918e-006
tblVehicleEF	HHD	0.07	0.09
tblVehicleEF	HHD	1.8400e-004	7.4800e-004
tblVehicleEF	HHD	0.04	1.0449e-006

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	4.3003e-007
tblVehicleEF	HHD	1.6300e-004	7.4470e-006
tblVehicleEF	HHD	2.9560e-003	1.5586e-004
tblVehicleEF	HHD	0.92	0.53
tblVehicleEF	HHD	9.2000e-005	5.0918e-006
tblVehicleEF	HHD	0.11	0.12
tblVehicleEF	HHD	1.8400e-004	7.4800e-004
tblVehicleEF	HHD	0.05	1.1441e-006
tblVehicleEF	HHD	1.54	0.02
tblVehicleEF	HHD	0.03	3.9264e-003
tblVehicleEF	HHD	0.10	2.1145e-007
tblVehicleEF	HHD	4.51	5.86
tblVehicleEF	HHD	0.45	0.36
tblVehicleEF	HHD	1.47	5.0740e-003
tblVehicleEF	HHD	5,957.03	1,095.99
tblVehicleEF	HHD	1,461.92	1,363.80
tblVehicleEF	HHD	4.62	0.04
tblVehicleEF	HHD	25.25	6.10
tblVehicleEF	HHD	2.67	3.34
tblVehicleEF	HHD	0.02	8.8013e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.06
tblVehicleEF	HHD	3.8000e-005	6.9620e-007
tblVehicleEF	HHD	0.02	8.4206e-003

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.7660e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	6.4013e-007
tblVehicleEF	HHD	6.7000e-005	4.1581e-006
tblVehicleEF	HHD	2.7490e-003	1.5944e-004
tblVehicleEF	HHD	0.91	0.42
tblVehicleEF	HHD	4.1000e-005	2.6509e-006
tblVehicleEF	HHD	0.07	0.08
tblVehicleEF	HHD	1.9200e-004	7.7684e-004
tblVehicleEF	HHD	0.05	1.0839e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	4.3370e-007
tblVehicleEF	HHD	6.7000e-005	4.1581e-006
tblVehicleEF	HHD	2.7490e-003	1.5944e-004
tblVehicleEF	HHD	1.05	0.48
tblVehicleEF	HHD	4.1000e-005	2.6509e-006
tblVehicleEF	HHD	0.11	0.10
tblVehicleEF	HHD	1.9200e-004	7.7684e-004
tblVehicleEF	HHD	0.05	1.1867e-006
tblVehicleEF	LDA	4.0430e-003	2.4275e-003
tblVehicleEF	LDA	5.4670e-003	0.05
tblVehicleEF	LDA	0.58	0.65
tblVehicleEF	LDA	1.16	2.15
tblVehicleEF	LDA	255.91	264.02
tblVehicleEF	LDA	58.81	54.78

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.6140e-003	1.4413e-003
tblVehicleEF	LDA	2.2650e-003	1.9145e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.4880e-003	1.3279e-003
tblVehicleEF	LDA	2.0830e-003	1.7604e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	9.3165e-003
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.5630e-003	2.6119e-003
tblVehicleEF	LDA	6.0800e-004	5.4212e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.5900e-003	2.7357e-003
tblVehicleEF	LDA	4.7470e-003	0.05
tblVehicleEF	LDA	0.71	0.77
tblVehicleEF	LDA	1.02	1.80

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDA	278.73	285.50
tblVehicleEF	LDA	58.81	54.12
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.6140e-003	1.4413e-003
tblVehicleEF	LDA	2.2650e-003	1.9145e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.4880e-003	1.3279e-003
tblVehicleEF	LDA	2.0830e-003	1.7604e-003
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	2.7930e-003	2.8244e-003
tblVehicleEF	LDA	6.0500e-004	5.3561e-004
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.12	0.11
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	3.8980e-003	2.3855e-003
tblVehicleEF	LDA	5.6140e-003	0.05

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDA	0.54	0.62
tblVehicleEF	LDA	1.19	2.13
tblVehicleEF	LDA	249.57	260.40
tblVehicleEF	LDA	58.81	54.76
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.6140e-003	1.4413e-003
tblVehicleEF	LDA	2.2650e-003	1.9145e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.4880e-003	1.3279e-003
tblVehicleEF	LDA	2.0830e-003	1.7604e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.8140e-003	9.1467e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.4990e-003	2.5760e-003
tblVehicleEF	LDA	6.0800e-004	5.4186e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.08	0.25

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDT1	0.01	7.6986e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.46	1.55
tblVehicleEF	LDT1	3.40	2.46
tblVehicleEF	LDT1	315.98	313.01
tblVehicleEF	LDT1	72.28	66.81
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.5300e-003	2.2623e-003
tblVehicleEF	LDT1	3.6970e-003	2.9788e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.3290e-003	2.0820e-003
tblVehicleEF	LDT1	3.4000e-003	2.7391e-003
tblVehicleEF	LDT1	0.21	0.19
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.24	0.46
tblVehicleEF	LDT1	3.1780e-003	3.0974e-003
tblVehicleEF	LDT1	7.8300e-004	6.6113e-004
tblVehicleEF	LDT1	0.21	0.19
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.04	0.05

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.26	0.50
tblVehicleEF	LDT1	0.01	8.5808e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.76	1.83
tblVehicleEF	LDT1	2.99	2.05
tblVehicleEF	LDT1	343.19	335.41
tblVehicleEF	LDT1	72.28	65.94
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.5300e-003	2.2623e-003
tblVehicleEF	LDT1	3.6970e-003	2.9788e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.3290e-003	2.0820e-003
tblVehicleEF	LDT1	3.4000e-003	2.7391e-003
tblVehicleEF	LDT1	0.41	0.36
tblVehicleEF	LDT1	0.43	0.32
tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	3.4550e-003	3.3191e-003
tblVehicleEF	LDT1	7.7500e-004	6.5255e-004
tblVehicleEF	LDT1	0.41	0.36
tblVehicleEF	LDT1	0.43	0.32



IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDT1	0.27	0.26
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.85
tblVehicleEF	LDT1	0.23	0.43
tblVehicleEF	LDT1	0.01	7.5727e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.37	1.50
tblVehicleEF	LDT1	3.46	2.44
tblVehicleEF	LDT1	307.88	309.22
tblVehicleEF	LDT1	72.28	66.78
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.5300e-003	2.2623e-003
tblVehicleEF	LDT1	3.6970e-003	2.9788e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.3290e-003	2.0820e-003
tblVehicleEF	LDT1	3.4000e-003	2.7391e-003
tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.39	0.31
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.01
tblVehicleEF	LDT1	0.25	0.46
tblVehicleEF	LDT1	3.0960e-003	3.0600e-003
tblVehicleEF	LDT1	7.8400e-004	6.6081e-004

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.39	0.31
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.23	1.02
tblVehicleEF	LDT1	0.27	0.50
tblVehicleEF	LDT2	5.6080e-003	4.0030e-003
tblVehicleEF	LDT2	7.2840e-003	0.07
tblVehicleEF	LDT2	0.76	0.93
tblVehicleEF	LDT2	1.53	2.77
tblVehicleEF	LDT2	355.02	334.40
tblVehicleEF	LDT2	81.24	71.60
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.6030e-003	1.4809e-003
tblVehicleEF	LDT2	2.3320e-003	1.9495e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.4740e-003	1.3631e-003
tblVehicleEF	LDT2	2.1450e-003	1.7925e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.10	0.34

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDT2	3.5560e-003	3.3085e-003
tblVehicleEF	LDT2	8.3800e-004	7.0852e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	6.3630e-003	4.4905e-003
tblVehicleEF	LDT2	6.3270e-003	0.06
tblVehicleEF	LDT2	0.93	1.11
tblVehicleEF	LDT2	1.35	2.31
tblVehicleEF	LDT2	386.34	356.10
tblVehicleEF	LDT2	81.24	70.71
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.6030e-003	1.4809e-003
tblVehicleEF	LDT2	2.3320e-003	1.9495e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.4740e-003	1.3631e-003
tblVehicleEF	LDT2	2.1450e-003	1.7925e-003
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8710e-003	3.5232e-003
tblVehicleEF	LDT2	8.3500e-004	6.9977e-004
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.42
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.3900e-003	3.9361e-003
tblVehicleEF	LDT2	7.4940e-003	0.07
tblVehicleEF	LDT2	0.71	0.90
tblVehicleEF	LDT2	1.57	2.75
tblVehicleEF	LDT2	345.65	330.74
tblVehicleEF	LDT2	81.24	71.57
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.6030e-003	1.4809e-003
tblVehicleEF	LDT2	2.3320e-003	1.9495e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.4740e-003	1.3631e-003
tblVehicleEF	LDT2	2.1450e-003	1.7925e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.4620e-003	3.2722e-003
tblVehicleEF	LDT2	8.3900e-004	7.0821e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.49
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LHD1	5.4460e-003	4.7711e-003
tblVehicleEF	LHD1	0.01	5.3525e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.96	0.72
tblVehicleEF	LHD1	2.41	0.95
tblVehicleEF	LHD1	9.26	9.49
tblVehicleEF	LHD1	607.95	635.36
tblVehicleEF	LHD1	30.36	10.31
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.21	1.68
tblVehicleEF	LHD1	9.7200e-004	9.9729e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LHD1	8.7100e-004	2.2853e-004
tblVehicleEF	LHD1	9.3000e-004	9.5415e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5390e-003	2.5132e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1012e-004
tblVehicleEF	LHD1	3.8710e-003	2.6459e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9010e-003	1.3629e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.48
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.1676e-005
tblVehicleEF	LHD1	5.9620e-003	6.1767e-003
tblVehicleEF	LHD1	3.4900e-004	1.0205e-004
tblVehicleEF	LHD1	3.8710e-003	2.6459e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9010e-003	1.3629e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.31	0.48
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.4460e-003	4.7847e-003
tblVehicleEF	LHD1	0.01	5.4445e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.17

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LHD1	0.97	0.74
tblVehicleEF	LHD1	2.29	0.90
tblVehicleEF	LHD1	9.26	9.49
tblVehicleEF	LHD1	607.95	635.38
tblVehicleEF	LHD1	30.36	10.22
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.08	1.58
tblVehicleEF	LHD1	9.7200e-004	9.9729e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.2853e-004
tblVehicleEF	LHD1	9.3000e-004	9.5415e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5390e-003	2.5132e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1012e-004
tblVehicleEF	LHD1	7.2450e-003	4.7126e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.6380e-003	2.6331e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.32	0.48
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.3000e-005	9.1676e-005
tblVehicleEF	LHD1	5.9620e-003	6.1769e-003
tblVehicleEF	LHD1	3.4700e-004	1.0116e-004

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LHD1	7.2450e-003	4.7126e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.6380e-003	2.6331e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.32	0.48
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.4460e-003	4.7735e-003
tblVehicleEF	LHD1	0.01	5.3625e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.96	0.73
tblVehicleEF	LHD1	2.41	0.94
tblVehicleEF	LHD1	9.26	9.49
tblVehicleEF	LHD1	607.95	635.36
tblVehicleEF	LHD1	30.36	10.30
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.18	1.65
tblVehicleEF	LHD1	9.7200e-004	9.9729e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.2853e-004
tblVehicleEF	LHD1	9.3000e-004	9.5415e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5390e-003	2.5132e-003
tblVehicleEF	LHD1	0.01	0.01



## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LHD1	8.0100e-004	2.1012e-004
tblVehicleEF	LHD1	3.4570e-003	2.8041e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7350e-003	1.4343e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.52
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.1676e-005
tblVehicleEF	LHD1	5.9620e-003	6.1767e-003
tblVehicleEF	LHD1	3.4900e-004	1.0189e-004
tblVehicleEF	LHD1	3.4570e-003	2.8041e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7350e-003	1.4343e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.33	0.52
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD2	3.6660e-003	2.9071e-003
tblVehicleEF	LHD2	4.5290e-003	3.7987e-003
tblVehicleEF	LHD2	8.3110e-003	8.1462e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.50	0.52
tblVehicleEF	LHD2	1.15	0.51
tblVehicleEF	LHD2	14.48	15.14
tblVehicleEF	LHD2	604.20	629.09
tblVehicleEF	LHD2	23.56	6.61

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.71	1.83
tblVehicleEF	LHD2	1.3360e-003	1.5018e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.0545e-004
tblVehicleEF	LHD2	1.2780e-003	1.4369e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6970e-003	2.7369e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	9.6959e-005
tblVehicleEF	LHD2	1.4980e-003	1.2263e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7800e-004	6.4826e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4445e-004
tblVehicleEF	LHD2	5.8740e-003	6.0523e-003
tblVehicleEF	LHD2	2.5700e-004	6.5406e-005
tblVehicleEF	LHD2	1.4980e-003	1.2263e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7800e-004	6.4826e-004
tblVehicleEF	LHD2	0.07	0.07

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LHD2	0.09	0.22
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	3.6660e-003	2.9149e-003
tblVehicleEF	LHD2	4.5800e-003	3.8275e-003
tblVehicleEF	LHD2	8.0210e-003	7.8341e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.51	0.52
tblVehicleEF	LHD2	1.10	0.48
tblVehicleEF	LHD2	14.48	15.14
tblVehicleEF	LHD2	604.20	629.09
tblVehicleEF	LHD2	23.56	6.56
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.62	1.73
tblVehicleEF	LHD2	1.3360e-003	1.5018e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.0545e-004
tblVehicleEF	LHD2	1.2780e-003	1.4369e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6970e-003	2.7369e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	9.6959e-005
tblVehicleEF	LHD2	2.8320e-003	2.1864e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.4720e-003	1.2508e-003

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4445e-004
tblVehicleEF	LHD2	5.8740e-003	6.0524e-003
tblVehicleEF	LHD2	2.5600e-004	6.4938e-005
tblVehicleEF	LHD2	2.8320e-003	2.1864e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4720e-003	1.2508e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.22
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	3.6660e-003	2.9085e-003
tblVehicleEF	LHD2	4.5170e-003	3.8023e-003
tblVehicleEF	LHD2	8.3600e-003	8.0900e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.50	0.52
tblVehicleEF	LHD2	1.16	0.50
tblVehicleEF	LHD2	14.48	15.14
tblVehicleEF	LHD2	604.20	629.09
tblVehicleEF	LHD2	23.56	6.60
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.70	1.81
tblVehicleEF	LHD2	1.3360e-003	1.5018e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.0545e-004
tblVehicleEF	LHD2	1.2780e-003	1.4369e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6970e-003	2.7369e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	9.6959e-005
tblVehicleEF	LHD2	1.1910e-003	1.2710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6000e-004	6.7445e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.24
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4445e-004
tblVehicleEF	LHD2	5.8740e-003	6.0523e-003
tblVehicleEF	LHD2	2.5700e-004	6.5323e-005
tblVehicleEF	LHD2	1.1910e-003	1.2710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6000e-004	6.7445e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.24
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.52	19.50

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MCY	9.67	8.60
tblVehicleEF	MCY	165.74	207.81
tblVehicleEF	MCY	46.23	60.96
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	1.7750e-003	1.7168e-003
tblVehicleEF	MCY	3.4010e-003	2.8688e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.6600e-003	1.6067e-003
tblVehicleEF	MCY	3.2060e-003	2.7030e-003
tblVehicleEF	MCY	1.69	1.42
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.08	1.85
tblVehicleEF	MCY	2.0380e-003	2.0565e-003
tblVehicleEF	MCY	6.8100e-004	6.0328e-004
tblVehicleEF	MCY	1.69	1.42
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.65	2.64
tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.26	2.01
tblVehicleEF	MCY	0.42	0.31

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.23	19.46
tblVehicleEF	MCY	9.11	7.90
tblVehicleEF	MCY	165.74	207.59
tblVehicleEF	MCY	46.23	59.07
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	1.7750e-003	1.7168e-003
tblVehicleEF	MCY	3.4010e-003	2.8688e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.6600e-003	1.6067e-003
tblVehicleEF	MCY	3.2060e-003	2.7030e-003
tblVehicleEF	MCY	3.35	2.73
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.13	2.10
tblVehicleEF	MCY	0.57	1.84
tblVehicleEF	MCY	1.86	1.62
tblVehicleEF	MCY	2.0490e-003	2.0543e-003
tblVehicleEF	MCY	6.6500e-004	5.8457e-004
tblVehicleEF	MCY	3.35	2.73
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.62	2.59
tblVehicleEF	MCY	0.57	1.84

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MCY	2.02	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	18.91
tblVehicleEF	MCY	9.62	8.38
tblVehicleEF	MCY	165.74	206.80
tblVehicleEF	MCY	46.23	60.47
tblVehicleEF	MCY	1.12	1.10
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	1.7750e-003	1.7168e-003
tblVehicleEF	MCY	3.4010e-003	2.8688e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.6600e-003	1.6067e-003
tblVehicleEF	MCY	3.2060e-003	2.7030e-003
tblVehicleEF	MCY	1.60	1.63
tblVehicleEF	MCY	1.05	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.15	2.13
tblVehicleEF	MCY	0.65	2.13
tblVehicleEF	MCY	2.08	1.81
tblVehicleEF	MCY	2.0310e-003	2.0465e-003
tblVehicleEF	MCY	6.8100e-004	5.9842e-004
tblVehicleEF	MCY	1.60	1.63
tblVehicleEF	MCY	1.05	1.06
tblVehicleEF	MCY	0.74	0.76



IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MCY	2.64	2.62
tblVehicleEF	MCY	0.65	2.13
tblVehicleEF	MCY	2.27	1.97
tblVehicleEF	MDV	0.01	5.5311e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.42	1.15
tblVehicleEF	MDV	3.18	3.31
tblVehicleEF	MDV	488.89	418.28
tblVehicleEF	MDV	110.15	88.92
tblVehicleEF	MDV	0.17	0.12
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.7110e-003	1.5592e-003
tblVehicleEF	MDV	2.4630e-003	2.0458e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.5780e-003	1.4389e-003
tblVehicleEF	MDV	2.2660e-003	1.8823e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.9000e-003	4.1357e-003
tblVehicleEF	MDV	1.1570e-003	8.7994e-004
tblVehicleEF	MDV	0.11	0.11

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.27	0.50
tblVehicleEF	MDV	0.01	6.1666e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.73	1.36
tblVehicleEF	MDV	2.81	2.77
tblVehicleEF	MDV	530.71	441.48
tblVehicleEF	MDV	110.15	87.84
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.7110e-003	1.5592e-003
tblVehicleEF	MDV	2.4630e-003	2.0458e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.5780e-003	1.4389e-003
tblVehicleEF	MDV	2.2660e-003	1.8823e-003
tblVehicleEF	MDV	0.22	0.20
tblVehicleEF	MDV	0.23	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	5.3230e-003	4.3652e-003

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MDV	1.1510e-003	8.6926e-004
tblVehicleEF	MDV	0.22	0.20
tblVehicleEF	MDV	0.23	0.18
tblVehicleEF	MDV	0.17	0.18
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.23	0.42
tblVehicleEF	MDV	0.01	5.4334e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.33	1.11
tblVehicleEF	MDV	3.24	3.29
tblVehicleEF	MDV	476.42	414.36
tblVehicleEF	MDV	110.15	88.88
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.7110e-003	1.5592e-003
tblVehicleEF	MDV	2.4630e-003	2.0458e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.5780e-003	1.4389e-003
tblVehicleEF	MDV	2.2660e-003	1.8823e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.55

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.7750e-003	4.0969e-003
tblVehicleEF	MDV	1.1590e-003	8.7956e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.13	0.55
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MH	0.03	3.3935e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.70	0.35
tblVehicleEF	MH	5.98	0.00
tblVehicleEF	MH	1,002.10	942.43
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.67	4.53
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.15
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.54	0.00

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tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	9.9460e-003	8.9094e-003
tblVehicleEF	MH	6.8100e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.03	3.3935e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.78	0.35
tblVehicleEF	MH	5.56	0.00
tblVehicleEF	MH	1,002.10	942.43
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.55	4.28
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.15
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	2.87	0.00

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.06	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	9.9470e-003	8.9094e-003
tblVehicleEF	MH	6.7400e-004	0.00
tblVehicleEF	MH	2.87	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.06	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3935e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.70	0.35
tblVehicleEF	MH	6.02	0.00
tblVehicleEF	MH	1,002.10	942.43
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.65	4.46
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.15
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	1.58	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	9.9460e-003	8.9094e-003
tblVehicleEF	MH	6.8200e-004	0.00
tblVehicleEF	MH	1.58	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MHD	0.02	2.7460e-003
tblVehicleEF	MHD	3.7220e-003	5.6867e-003
tblVehicleEF	MHD	0.06	7.1017e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.28	0.52
tblVehicleEF	MHD	6.06	0.85
tblVehicleEF	MHD	151.96	73.08
tblVehicleEF	MHD	1,066.63	977.33
tblVehicleEF	MHD	55.49	7.02
tblVehicleEF	MHD	0.65	0.69
tblVehicleEF	MHD	0.99	2.47
tblVehicleEF	MHD	1.0680e-003	2.4553e-003

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.4490e-003	0.09
tblVehicleEF	MHD	7.8800e-004	8.3075e-005
tblVehicleEF	MHD	1.0220e-003	2.3490e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	7.6384e-005
tblVehicleEF	MHD	1.7450e-003	4.7261e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.5800e-004	2.4808e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	MHD	1.4610e-003	6.9264e-004
tblVehicleEF	MHD	0.01	9.2823e-003
tblVehicleEF	MHD	6.6100e-004	6.9447e-005
tblVehicleEF	MHD	1.7450e-003	4.7261e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.5800e-004	2.4808e-004
tblVehicleEF	MHD	0.04	0.13
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.40	0.04
tblVehicleEF	MHD	0.02	2.6082e-003



## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MHD	3.7740e-003	5.7084e-003
tblVehicleEF	MHD	0.05	6.8222e-003
tblVehicleEF	MHD	0.26	0.26
tblVehicleEF	MHD	0.28	0.52
tblVehicleEF	MHD	5.78	0.80
tblVehicleEF	MHD	160.96	74.59
tblVehicleEF	MHD	1,066.63	977.34
tblVehicleEF	MHD	55.49	6.94
tblVehicleEF	MHD	0.67	0.70
tblVehicleEF	MHD	0.93	2.33
tblVehicleEF	MHD	9.0000e-004	2.0724e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.4490e-003	0.09
tblVehicleEF	MHD	7.8800e-004	8.3075e-005
tblVehicleEF	MHD	8.6100e-004	1.9827e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	7.6384e-005
tblVehicleEF	MHD	3.3760e-003	8.5308e-004
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.6840e-003	4.9480e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MHD	1.5460e-003	7.0697e-004
tblVehicleEF	MHD	0.01	9.2823e-003
tblVehicleEF	MHD	6.5600e-004	6.8643e-005
tblVehicleEF	MHD	3.3760e-003	8.5308e-004
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	1.6840e-003	4.9480e-004
tblVehicleEF	MHD	0.04	0.13
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.39	0.04
tblVehicleEF	MHD	0.02	2.9480e-003
tblVehicleEF	MHD	3.6890e-003	5.6878e-003
tblVehicleEF	MHD	0.06	7.0368e-003
tblVehicleEF	MHD	0.49	0.40
tblVehicleEF	MHD	0.27	0.52
tblVehicleEF	MHD	6.14	0.84
tblVehicleEF	MHD	139.53	71.00
tblVehicleEF	MHD	1,066.63	977.33
tblVehicleEF	MHD	55.49	7.00
tblVehicleEF	MHD	0.62	0.67
tblVehicleEF	MHD	0.98	2.43
tblVehicleEF	MHD	1.2990e-003	2.9840e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.4490e-003	0.09
tblVehicleEF	MHD	7.8800e-004	8.3075e-005
tblVehicleEF	MHD	1.2430e-003	2.8549e-003

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	7.6384e-005
tblVehicleEF	MHD	1.3320e-003	5.0561e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.7900e-004	2.6308e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	MHD	1.3440e-003	6.7281e-004
tblVehicleEF	MHD	0.01	9.2823e-003
tblVehicleEF	MHD	6.6300e-004	6.9296e-005
tblVehicleEF	MHD	1.3320e-003	5.0561e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.7900e-004	2.6308e-004
tblVehicleEF	MHD	0.04	0.13
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.41	0.04
tblVehicleEF	OBUS	0.01	8.8304e-003
tblVehicleEF	OBUS	8.0950e-003	9.8616e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.54	1.11
tblVehicleEF	OBUS	6.17	2.80

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	OBUS	75.04	68.90
tblVehicleEF	OBUS	1,098.07	1,401.75
tblVehicleEF	OBUS	70.10	21.77
tblVehicleEF	OBUS	0.35	0.41
tblVehicleEF	OBUS	1.12	1.96
tblVehicleEF	OBUS	1.2100e-004	1.7088e-003
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	6.0450e-003	0.05
tblVehicleEF	OBUS	8.2300e-004	2.0944e-004
tblVehicleEF	OBUS	1.1600e-004	1.6349e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.9258e-004
tblVehicleEF	OBUS	2.1800e-003	2.6435e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3000e-004	1.1509e-003
tblVehicleEF	OBUS	0.04	0.10
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.13
tblVehicleEF	OBUS	7.2800e-004	6.5786e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.1540e-004
tblVehicleEF	OBUS	2.1800e-003	2.6435e-003
tblVehicleEF	OBUS	0.02	0.03

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3000e-004	1.1509e-003
tblVehicleEF	OBUS	0.05	0.13
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.42	0.15
tblVehicleEF	OBUS	0.01	8.8556e-003
tblVehicleEF	OBUS	8.2540e-003	0.01
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.46
tblVehicleEF	OBUS	0.55	1.14
tblVehicleEF	OBUS	5.76	2.60
tblVehicleEF	OBUS	78.48	69.40
tblVehicleEF	OBUS	1,098.07	1,401.78
tblVehicleEF	OBUS	70.10	21.43
tblVehicleEF	OBUS	0.36	0.41
tblVehicleEF	OBUS	1.04	1.83
tblVehicleEF	OBUS	1.0200e-004	1.4437e-003
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	6.0450e-003	0.05
tblVehicleEF	OBUS	8.2300e-004	2.0944e-004
tblVehicleEF	OBUS	9.8000e-005	1.3812e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.9258e-004
tblVehicleEF	OBUS	4.0690e-003	4.6625e-003

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7890e-003	2.2351e-003
tblVehicleEF	OBUS	0.04	0.10
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	OBUS	7.6100e-004	6.6259e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0200e-004	2.1210e-004
tblVehicleEF	OBUS	4.0690e-003	4.6625e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7890e-003	2.2351e-003
tblVehicleEF	OBUS	0.05	0.13
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	OBUS	0.01	8.8320e-003
tblVehicleEF	OBUS	8.0660e-003	9.8763e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.51
tblVehicleEF	OBUS	0.54	1.12
tblVehicleEF	OBUS	6.22	2.79
tblVehicleEF	OBUS	70.30	68.21
tblVehicleEF	OBUS	1,098.07	1,401.75
tblVehicleEF	OBUS	70.10	21.75
tblVehicleEF	OBUS	0.34	0.41
tblVehicleEF	OBUS	1.11	1.93

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	OBUS	1.4700e-004	2.0750e-003
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	6.0450e-003	0.05
tblVehicleEF	OBUS	8.2300e-004	2.0944e-004
tblVehicleEF	OBUS	1.4100e-004	1.9852e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.9258e-004
tblVehicleEF	OBUS	1.8870e-003	2.7905e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.5400e-004	1.2289e-003
tblVehicleEF	OBUS	0.04	0.10
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.39	0.13
tblVehicleEF	OBUS	6.8300e-004	6.5131e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1000e-004	2.1523e-004
tblVehicleEF	OBUS	1.8870e-003	2.7905e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	8.5400e-004	1.2289e-003
tblVehicleEF	OBUS	0.05	0.13
tblVehicleEF	OBUS	0.05	0.30
tblVehicleEF	OBUS	0.42	0.15

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	SBUS	0.84	0.09
tblVehicleEF	SBUS	0.01	7.1350e-003
tblVehicleEF	SBUS	0.06	7.9942e-003
tblVehicleEF	SBUS	7.83	3.38
tblVehicleEF	SBUS	0.64	0.59
tblVehicleEF	SBUS	6.66	1.10
tblVehicleEF	SBUS	1,146.29	374.62
tblVehicleEF	SBUS	1,103.40	1,117.10
tblVehicleEF	SBUS	53.92	6.97
tblVehicleEF	SBUS	10.00	3.53
tblVehicleEF	SBUS	4.65	4.80
tblVehicleEF	SBUS	0.01	3.9568e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.4077e-005
tblVehicleEF	SBUS	0.01	3.7856e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6950e-003	2.6443e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	4.0527e-005
tblVehicleEF	SBUS	4.6830e-003	1.3761e-003
tblVehicleEF	SBUS	0.03	9.8813e-003
tblVehicleEF	SBUS	0.94	0.41
tblVehicleEF	SBUS	2.1770e-003	6.8647e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.06



## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.5825e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5500e-004	6.8974e-005
tblVehicleEF	SBUS	4.6830e-003	1.3761e-003
tblVehicleEF	SBUS	0.03	9.8813e-003
tblVehicleEF	SBUS	1.35	0.59
tblVehicleEF	SBUS	2.1770e-003	6.8647e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.40	0.05
tblVehicleEF	SBUS	0.84	0.09
tblVehicleEF	SBUS	0.01	7.2252e-003
tblVehicleEF	SBUS	0.05	6.6642e-003
tblVehicleEF	SBUS	7.71	3.33
tblVehicleEF	SBUS	0.65	0.60
tblVehicleEF	SBUS	4.83	0.79
tblVehicleEF	SBUS	1,198.60	385.14
tblVehicleEF	SBUS	1,103.40	1,117.12
tblVehicleEF	SBUS	53.92	6.45
tblVehicleEF	SBUS	10.32	3.62
tblVehicleEF	SBUS	4.37	4.52
tblVehicleEF	SBUS	9.1190e-003	3.3421e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.4077e-005

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	SBUS	8.7240e-003	3.1975e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6950e-003	2.6443e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	4.0527e-005
tblVehicleEF	SBUS	8.4640e-003	2.4143e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	4.0830e-003	1.2843e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.04
tblVehicleEF	SBUS	0.01	3.6819e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2400e-004	6.3868e-005
tblVehicleEF	SBUS	8.4640e-003	2.4143e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.35	0.59
tblVehicleEF	SBUS	4.0830e-003	1.2843e-003
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.04
tblVehicleEF	SBUS	0.84	0.09
tblVehicleEF	SBUS	0.01	7.1336e-003
tblVehicleEF	SBUS	0.07	8.1369e-003
tblVehicleEF	SBUS	8.00	3.43
tblVehicleEF	SBUS	0.63	0.59

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	SBUS	7.02	1.12
tblVehicleEF	SBUS	1,074.07	360.11
tblVehicleEF	SBUS	1,103.40	1,117.10
tblVehicleEF	SBUS	53.92	7.01
tblVehicleEF	SBUS	9.56	3.40
tblVehicleEF	SBUS	4.60	4.73
tblVehicleEF	SBUS	0.01	4.8056e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.4077e-005
tblVehicleEF	SBUS	0.01	4.5978e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6950e-003	2.6443e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	4.0527e-005
tblVehicleEF	SBUS	4.1680e-003	1.3129e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.94	0.41
tblVehicleEF	SBUS	2.1000e-003	7.1176e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.38	0.05
tblVehicleEF	SBUS	0.01	3.4454e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6100e-004	6.9371e-005
tblVehicleEF	SBUS	4.1680e-003	1.3129e-003

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.35	0.59
tblVehicleEF	SBUS	2.1000e-003	7.1176e-004
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.51	3.04
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	8.45	23.57
tblVehicleEF	UBUS	15.26	1.95
tblVehicleEF	UBUS	1,822.40	1,641.55
tblVehicleEF	UBUS	153.45	23.43
tblVehicleEF	UBUS	4.95	0.30
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.1611e-003
tblVehicleEF	UBUS	1.4200e-003	2.0913e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0573e-003
tblVehicleEF	UBUS	0.05	2.0479e-003
tblVehicleEF	UBUS	1.3060e-003	1.9228e-004
tblVehicleEF	UBUS	9.7430e-003	2.3414e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	4.7860e-003	9.2419e-004
tblVehicleEF	UBUS	0.52	0.05
tblVehicleEF	UBUS	0.02	0.06
tblVehicleEF	UBUS	1.17	0.10

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	UBUS	9.9960e-003	6.3901e-003
tblVehicleEF	UBUS	1.8100e-003	2.3183e-004
tblVehicleEF	UBUS	9.7430e-003	2.3414e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	4.7860e-003	9.2419e-004
tblVehicleEF	UBUS	2.08	3.11
tblVehicleEF	UBUS	0.02	0.06
tblVehicleEF	UBUS	1.28	0.10
tblVehicleEF	UBUS	1.52	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	8.53	23.58
tblVehicleEF	UBUS	13.06	1.66
tblVehicleEF	UBUS	1,822.40	1,641.55
tblVehicleEF	UBUS	153.45	22.94
tblVehicleEF	UBUS	4.62	0.29
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.1611e-003
tblVehicleEF	UBUS	1.4200e-003	2.0913e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0573e-003
tblVehicleEF	UBUS	0.05	2.0479e-003
tblVehicleEF	UBUS	1.3060e-003	1.9228e-004
tblVehicleEF	UBUS	0.02	4.1836e-003
tblVehicleEF	UBUS	0.14	0.02
tblVehicleEF	UBUS	9.6600e-003	1.8853e-003
tblVehicleEF	UBUS	0.53	0.05

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	UBUS	0.02	0.06
tblVehicleEF	UBUS	1.06	0.09
tblVehicleEF	UBUS	9.9970e-003	6.3902e-003
tblVehicleEF	UBUS	1.7720e-003	2.2697e-004
tblVehicleEF	UBUS	0.02	4.1836e-003
tblVehicleEF	UBUS	0.14	0.02
tblVehicleEF	UBUS	9.6600e-003	1.8853e-003
tblVehicleEF	UBUS	2.09	3.11
tblVehicleEF	UBUS	0.02	0.06
tblVehicleEF	UBUS	1.17	0.10
tblVehicleEF	UBUS	1.51	3.04
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	8.44	23.57
tblVehicleEF	UBUS	15.44	1.93
tblVehicleEF	UBUS	1,822.40	1,641.55
tblVehicleEF	UBUS	153.45	23.40
tblVehicleEF	UBUS	4.92	0.30
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.1611e-003
tblVehicleEF	UBUS	1.4200e-003	2.0913e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0573e-003
tblVehicleEF	UBUS	0.05	2.0479e-003
tblVehicleEF	UBUS	1.3060e-003	1.9228e-004
tblVehicleEF	UBUS	8.9770e-003	2.4593e-003
tblVehicleEF	UBUS	0.13	0.01

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

tblVehicleEF	UBUS	4.3820e-003	9.7705e-004
tblVehicleEF	UBUS	0.52	0.05
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	1.18	0.10
tblVehicleEF	UBUS	9.9960e-003	6.3901e-003
tblVehicleEF	UBUS	1.8130e-003	2.3157e-004
tblVehicleEF	UBUS	8.9770e-003	2.4593e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.3820e-003	9.7705e-004
tblVehicleEF	UBUS	2.08	3.11
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	1.29	0.10
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	30.58
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.94
tblVehicleTrips	SU_TR	1.68	0.87
tblVehicleTrips	WD_TR	1.68	1.40
tblWater	IndoorWaterUseRate	317,610,312.50	15,885,370.31

## 2.0 Emissions Summary

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IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	5.7171	3.7000e-004	0.0401	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0777	0.0777	2.1000e-004	0.0000	0.0828
Energy	0.0104	0.0943	0.0792	5.7000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	956.9970	956.9970	0.0372	9.1800e-003	960.6633
Mobile	1.2919	25.1592	17.0908	0.1198	7.5895	0.4027	7.9923	2.0579	0.3845	2.4424	0.0000	11,355.4052	11,355.4052	0.1932	0.0000	11,360.2351
Offroad	0.1247	1.4108	0.7063	2.8900e-003		0.0476	0.0476		0.0438	0.0438	0.0000	254.2028	254.2028	0.0822	0.0000	256.2582
Waste						0.0000	0.0000		0.0000	0.0000	262.0695	0.0000	262.0695	15.4879	0.0000	649.2660
Water						0.0000	0.0000		0.0000	0.0000	5.0397	65.9047	70.9444	0.5204	0.0128	87.7631
<b>Total</b>	<b>7.1441</b>	<b>26.6646</b>	<b>17.9163</b>	<b>0.1233</b>	<b>7.5895</b>	<b>0.4577</b>	<b>8.0472</b>	<b>2.0579</b>	<b>0.4356</b>	<b>2.4935</b>	<b>267.1092</b>	<b>12,632.5874</b>	<b>12,899.6965</b>	<b>16.3211</b>	<b>0.0220</b>	<b>13,314.2685</b>

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - 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	5.7171	3.7000e-004	0.0401	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0777	0.0777	2.1000e-004	0.0000	0.0828
Energy	0.0104	0.0943	0.0792	5.7000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	956.9970	956.9970	0.0372	9.1800e-003	960.6633
Mobile	1.2919	25.1592	17.0908	0.1198	7.5895	0.4027	7.9923	2.0579	0.3845	2.4424	0.0000	11,355.4052	11,355.4052	0.1932	0.0000	11,360.2351
Offroad	0.1247	1.4108	0.7063	2.8900e-003		0.0476	0.0476		0.0438	0.0438	0.0000	254.2028	254.2028	0.0822	0.0000	256.2582
Waste						0.0000	0.0000		0.0000	0.0000	262.0695	0.0000	262.0695	15.4879	0.0000	649.2660
Water						0.0000	0.0000		0.0000	0.0000	5.0397	65.9047	70.9444	0.5204	0.0128	87.7631
<b>Total</b>	<b>7.1441</b>	<b>26.6646</b>	<b>17.9163</b>	<b>0.1233</b>	<b>7.5895</b>	<b>0.4577</b>	<b>8.0472</b>	<b>2.0579</b>	<b>0.4356</b>	<b>2.4935</b>	<b>267.1092</b>	<b>12,632.5874</b>	<b>12,899.6965</b>	<b>16.3211</b>	<b>0.0220</b>	<b>13,314.2685</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</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	12/1/2020	11/30/2020	5	0	

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

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

**Acres of Paving: 33.25**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



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**3.2 Site Preparation - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</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>0.0000</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>0.0000</b>	<b>0.0000</b>

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</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>0.0000</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>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

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IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2919	25.1592	17.0908	0.1198	7.5895	0.4027	7.9923	2.0579	0.3845	2.4424	0.0000	11,355.4052	11,355.4052	0.1932	0.0000	11,360.2351
Unmitigated	1.2919	25.1592	17.0908	0.1198	7.5895	0.4027	7.9923	2.0579	0.3845	2.4424	0.0000	11,355.4052	11,355.4052	0.1932	0.0000	11,360.2351

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,922.83	1,291.04	1,194.90	19,241,072	19,241,072
<b>Total</b>	<b>1,922.83</b>	<b>1,291.04</b>	<b>1,194.90</b>	<b>19,241,072</b>	<b>19,241,072</b>

**4.3 Trip Type Information**

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	30.58	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Unrefrigerated Warehouse-No Rail	0.416000	0.029000	0.142000	0.091000	0.054000	0.000000	0.066000	0.202000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	854.3875	854.3875	0.0353	7.3000e-003	857.4441
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	854.3875	854.3875	0.0353	7.3000e-003	857.4441
NaturalGas Mitigated	0.0104	0.0943	0.0792	5.7000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	102.6095	102.6095	1.9700e-003	1.8800e-003	103.2192
NaturalGas Unmitigated	0.0104	0.0943	0.0792	5.7000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	102.6095	102.6095	1.9700e-003	1.8800e-003	103.2192

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.92283e+006	0.0104	0.0943	0.0792	5.7000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	102.6095	102.6095	1.9700e-003	1.8800e-003	103.2192
<b>Total</b>		<b>0.0104</b>	<b>0.0943</b>	<b>0.0792</b>	<b>5.7000e-004</b>		<b>7.1600e-003</b>	<b>7.1600e-003</b>		<b>7.1600e-003</b>	<b>7.1600e-003</b>	<b>0.0000</b>	<b>102.6095</b>	<b>102.6095</b>	<b>1.9700e-003</b>	<b>1.8800e-003</b>	<b>103.2192</b>



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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.92283e+006	0.0104	0.0943	0.0792	5.7000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	102.6095	102.6095	1.9700e-003	1.8800e-003	103.2192	
<b>Total</b>		<b>0.0104</b>	<b>0.0943</b>	<b>0.0792</b>	<b>5.7000e-004</b>		<b>7.1600e-003</b>	<b>7.1600e-003</b>		<b>7.1600e-003</b>	<b>7.1600e-003</b>	<b>0.0000</b>	<b>102.6095</b>	<b>102.6095</b>	<b>1.9700e-003</b>	<b>1.8800e-003</b>	<b>103.2192</b>	

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	71960	22.9280	9.5000e-004	2.0000e-004	23.0100
Unrefrigerated Warehouse-No Rail	2.60955e+006	831.4595	0.0343	7.1000e-003	834.4341
<b>Total</b>		<b>854.3875</b>	<b>0.0353</b>	<b>7.3000e-003</b>	<b>857.4441</b>

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - 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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	71960	22.9280	9.5000e-004	2.0000e-004	23.0100
Unrefrigerated Warehouse-No Rail	2.60955e+006	831.4595	0.0343	7.1000e-003	834.4341
<b>Total</b>		<b>854.3875</b>	<b>0.0353</b>	<b>7.3000e-003</b>	<b>857.4441</b>

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

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - 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	5.7171	3.7000e-004	0.0401	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0777	0.0777	2.1000e-004	0.0000	0.0828
Unmitigated	5.7171	3.7000e-004	0.0401	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0777	0.0777	2.1000e-004	0.0000	0.0828

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0566					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.7500e-003	3.7000e-004	0.0401	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0777	0.0777	2.1000e-004	0.0000	0.0828
<b>Total</b>	<b>5.7171</b>	<b>3.7000e-004</b>	<b>0.0401</b>	<b>0.0000</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.0777</b>	<b>0.0777</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.0828</b>

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - 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	0.6567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0566					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.7500e-003	3.7000e-004	0.0401	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	0.0777	0.0777	2.1000e-004	0.0000	0.0828
<b>Total</b>	<b>5.7171</b>	<b>3.7000e-004</b>	<b>0.0401</b>	<b>0.0000</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.0777</b>	<b>0.0777</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.0828</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	70.9444	0.5204	0.0128	87.7631
Unmitigated	70.9444	0.5204	0.0128	87.7631

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	15.8854 / 0	70.9444	0.5204	0.0128	87.7631
<b>Total</b>		<b>70.9444</b>	<b>0.5204</b>	<b>0.0128</b>	<b>87.7631</b>

## IDI Rider 2 &amp; 4 and PVSD Improvement (Operations - Unmitigated) - 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			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	15.8854 / 0	70.9444	0.5204	0.0128	87.7631
<b>Total</b>		<b>70.9444</b>	<b>0.5204</b>	<b>0.0128</b>	<b>87.7631</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	262.0695	15.4879	0.0000	649.2660
Unmitigated	262.0695	15.4879	0.0000	649.2660

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1291.04	262.0695	15.4879	0.0000	649.2660
<b>Total</b>		<b>262.0695</b>	<b>15.4879</b>	<b>0.0000</b>	<b>649.2660</b>



IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1291.04	262.0695	15.4879	0.0000	649.2660
<b>Total</b>		<b>262.0695</b>	<b>15.4879</b>	<b>0.0000</b>	<b>649.2660</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	Electrical

IDI Rider 2 & 4 and PVSD Improvement (Operations - Unmitigated) - Riverside-South Coast County, Annual

**UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/Backhoes	0.1247	1.4108	0.7063	2.8900e-003		0.0476	0.0476		0.0438	0.0438	0.0000	254.2028	254.2028	0.0822	0.0000	256.2582
<b>Total</b>	<b>0.1247</b>	<b>1.4108</b>	<b>0.7063</b>	<b>2.8900e-003</b>		<b>0.0476</b>	<b>0.0476</b>		<b>0.0438</b>	<b>0.0438</b>	<b>0.0000</b>	<b>254.2028</b>	<b>254.2028</b>	<b>0.0822</b>	<b>0.0000</b>	<b>256.2582</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX 4.5:**  
**EMFAC2017 MODEL OUTPUTS**

## EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: County

Region: RIVERSIDE

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_Const	Fuel_Const	Total Fuel	VMT	Total VMT	Miles per C	Vehicle Class
RIVERSIDE	2020	HHDT	Aggregated	Aggregated	GAS	9.095524	642.6381	0.160154	160.1538	550025	642.6381	3752188.128	6.82	HHDT
RIVERSIDE	2020	HHDT	Aggregated	Aggregated	DSL	26446.81	3741871	545.6256	545625.6		3741871			
RIVERSIDE	2020	HHDT	Aggregated	Aggregated	NG	238.4864	9674.659	4.239186	4239.186		9674.659			
RIVERSIDE	2020	LDA	Aggregated	Aggregated	GAS	727415.3	29235242	963.6714	963671.4	968992.6	29235242	29807067.6	30.76	LDA
RIVERSIDE	2020	LDA	Aggregated	Aggregated	DSL	6210.83	264687.8	5.321149	5321.149		264687.8			
RIVERSIDE	2020	LDA	Aggregated	Aggregated	ELEC	7992.091	307137.6	0	0		307137.6			
RIVERSIDE	2020	LDT1	Aggregated	Aggregated	GAS	78434.22	2948933	114.7137	114713.7	114753.8	2948933	2956743.035	25.77	LDT1
RIVERSIDE	2020	LDT1	Aggregated	Aggregated	DSL	46.19775	1016.736	0.040094	40.0938		1016.736			
RIVERSIDE	2020	LDT1	Aggregated	Aggregated	ELEC	173.8902	6793.548	0	0		6793.548			
RIVERSIDE	2020	LDT2	Aggregated	Aggregated	GAS	240266	9472450	398.3277	398327.7	399728.6	9472450	9563009.703	23.92	LDT2
RIVERSIDE	2020	LDT2	Aggregated	Aggregated	DSL	1114.907	51585.18	1.400929	1400.929		51585.18			
RIVERSIDE	2020	LDT2	Aggregated	Aggregated	ELEC	1188.936	38974.86	0	0		38974.86			
RIVERSIDE	2020	LHDT1	Aggregated	Aggregated	GAS	21163.23	706741.5	66.77851	66778.51	100895.6	706741.5	1408085.895	13.96	LHDT1
RIVERSIDE	2020	LHDT1	Aggregated	Aggregated	DSL	19824.05	701344.3	34.11712	34117.12		701344.3			
RIVERSIDE	2020	LHDT2	Aggregated	Aggregated	GAS	3298.968	110129.1	11.92425	11924.25	26185.64	110129.1	378831.6298	14.47	LHDT2
RIVERSIDE	2020	LHDT2	Aggregated	Aggregated	DSL	7553.391	268702.5	14.26139	14261.39		268702.5			
RIVERSIDE	2020	MCY	Aggregated	Aggregated	GAS	35084.24	268056	6.986854	6986.854	6986.854	268056	268055.9886	38.37	MCY
RIVERSIDE	2020	MDV	Aggregated	Aggregated	GAS	208408.5	7762870	403.9761	403976.1	409841	7762870	7936571.298	19.36	MDV
RIVERSIDE	2020	MDV	Aggregated	Aggregated	DSL	3638.339	159965.7	5.864928	5864.928		159965.7			
RIVERSIDE	2020	MDV	Aggregated	Aggregated	ELEC	409.4714	13735.96	0	0		13735.96			
RIVERSIDE	2020	MH	Aggregated	Aggregated	GAS	6522.374	53431.65	10.55071	10550.71	12609.37	53431.65	75538.38855	5.99	MH
RIVERSIDE	2020	MH	Aggregated	Aggregated	DSL	2593.765	22106.74	2.058656	2058.656		22106.74			
RIVERSIDE	2020	MHDT	Aggregated	Aggregated	GAS	1903.946	100055.4	19.75096	19750.96	109862.5	100055.4	1050271.232	9.56	MHDT
RIVERSIDE	2020	MHDT	Aggregated	Aggregated	DSL	15685.65	950215.9	90.11149	90111.49		950215.9			
RIVERSIDE	2020	OBUS	Aggregated	Aggregated	GAS	590.9645	27934.48	5.567183	5567.183	8337.866	27934.48	51853.4565	6.22	OBUS
RIVERSIDE	2020	OBUS	Aggregated	Aggregated	DSL	340.8595	23918.98	2.770683	2770.683		23918.98			
RIVERSIDE	2020	SBUS	Aggregated	Aggregated	GAS	460.0488	18788.35	2.112909	2112.909	6835.842	18788.35	53961.39459	7.89	SBUS
RIVERSIDE	2020	SBUS	Aggregated	Aggregated	DSL	1109.225	35173.05	4.722934	4722.934		35173.05			
RIVERSIDE	2020	UBUS	Aggregated	Aggregated	GAS	162.5145	22881.2	3.711979	3711.979	13036.29	22881.2	64939.91488	4.98	UBUS
RIVERSIDE	2020	UBUS	Aggregated	Aggregated	DSL	1.105798	58.5719	0.006566	6.566327		58.5719			
RIVERSIDE	2020	UBUS	Aggregated	Aggregated	ELEC	5.058469	271.5304	0	0		271.5304			
RIVERSIDE	2020	UBUS	Aggregated	Aggregated	NG	304.7652	41728.61	9.317742	9317.742		41728.61			

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: County

Region: RIVERSIDE

Calendar Year: 2021

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_Const	Fuel_Const	Total Fuel	VMT	Total VMT	Miles per G Vehicle Cla:	
RIVERSIDE	2021	HHDT	Aggregated	Aggregated	GAS	8.256088	649.7326	0.156353	156.3527	553640.8	649.7326	3837906.057	6.93	HHDT
RIVERSIDE	2021	HHDT	Aggregated	Aggregated	DSL	27250.49	3825933	548.6131	548613.1		3825933			
RIVERSIDE	2021	HHDT	Aggregated	Aggregated	NG	278.9619	11322.93	4.871361	4871.361		11322.93			
RIVERSIDE	2021	LDA	Aggregated	Aggregated	GAS	750300.9	29816029	959.9773	959977.3	965561	29816029	30497458.72	31.59	LDA
RIVERSIDE	2021	LDA	Aggregated	Aggregated	DSL	6761.576	284051.9	5.583641	5583.641		284051.9			
RIVERSIDE	2021	LDA	Aggregated	Aggregated	ELEC	10150.83	397377.3	0	0		397377.3			
RIVERSIDE	2021	LDT1	Aggregated	Aggregated	GAS	80587.48	3017206	114.6031	114603.1	114639.7	3017206	3030847.153	26.44	LDT1
RIVERSIDE	2021	LDT1	Aggregated	Aggregated	DSL	42.61598	937.3229	0.036657	36.65656		937.3229			
RIVERSIDE	2021	LDT1	Aggregated	Aggregated	ELEC	312.6717	12704.03	0	0		12704.03			
RIVERSIDE	2021	LDT2	Aggregated	Aggregated	GAS	246596.5	9631964	392.036	392036	393578	9631964	9744734.894	24.76	LDT2
RIVERSIDE	2021	LDT2	Aggregated	Aggregated	DSL	1288.993	58422.34	1.54197	1541.97		58422.34			
RIVERSIDE	2021	LDT2	Aggregated	Aggregated	ELEC	1692.169	54349.02	0	0		54349.02			
RIVERSIDE	2021	LHDT1	Aggregated	Aggregated	GAS	20885.97	692854.1	65.01213	65012.13	98537.28	692854.1	1388805.699	14.09	LHDT1
RIVERSIDE	2021	LHDT1	Aggregated	Aggregated	DSL	19999.78	695951.6	33.52515	33525.15		695951.6			
RIVERSIDE	2021	LHDT2	Aggregated	Aggregated	GAS	3292.647	108726.5	11.69203	11692.03	25761.97	108726.5	376440.2063	14.61	LHDT2
RIVERSIDE	2021	LHDT2	Aggregated	Aggregated	DSL	7676.541	267713.8	14.06994	14069.94		267713.8			
RIVERSIDE	2021	MCY	Aggregated	Aggregated	GAS	35659.72	267522.4	6.987624	6987.624	6987.624	267522.4	267522.3909	38.29	MCY
RIVERSIDE	2021	MDV	Aggregated	Aggregated	GAS	208791.4	7677993	389.0923	389092.3	395217.4	7677993	7875321.205	19.93	MDV
RIVERSIDE	2021	MDV	Aggregated	Aggregated	DSL	3985.675	171354.6	6.12508	6125.08		171354.6			
RIVERSIDE	2021	MDV	Aggregated	Aggregated	ELEC	787.1077	25973.7	0	0		25973.7			
RIVERSIDE	2021	MH	Aggregated	Aggregated	GAS	6261.086	50694.81	9.933139	9933.139	11918.79	50694.81	72156.79568	6.05	MH
RIVERSIDE	2021	MH	Aggregated	Aggregated	DSL	2593.425	21461.99	1.985655	1985.655		21461.99			
RIVERSIDE	2021	MHDT	Aggregated	Aggregated	GAS	1963.204	103976.8	20.2217	20221.7	109638	103976.8	1067044.901	9.73	MHDT
RIVERSIDE	2021	MHDT	Aggregated	Aggregated	DSL	15756.36	963068.1	89.41631	89416.31		963068.1			
RIVERSIDE	2021	OBUS	Aggregated	Aggregated	GAS	589.4801	27261.01	5.369365	5369.365	8180.42	27261.01	52116.13959	6.37	OBUS
RIVERSIDE	2021	OBUS	Aggregated	Aggregated	DSL	347.993	24855.13	2.811055	2811.055		24855.13			
RIVERSIDE	2021	SBUS	Aggregated	Aggregated	GAS	475.4713	19228.88	2.150891	2150.891	6918.746	19228.88	55087.63668	7.96	SBUS
RIVERSIDE	2021	SBUS	Aggregated	Aggregated	DSL	1131.956	35858.76	4.767855	4767.855		35858.76			
RIVERSIDE	2021	UBUS	Aggregated	Aggregated	GAS	163.4848	23017.82	3.736316	3736.316	13112.25	23017.82	65327.65273	4.98	UBUS
RIVERSIDE	2021	UBUS	Aggregated	Aggregated	DSL	1.105798	58.5719	0.006566	6.566346		58.5719			
RIVERSIDE	2021	UBUS	Aggregated	Aggregated	ELEC	5.058469	271.5304	0	0		271.5304			
RIVERSIDE	2021	UBUS	Aggregated	Aggregated	NG	306.6216	41979.73	9.369372	9369.372		41979.73			

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