



---

# **Majestic Chino Heritage**

## **ENERGY ANALYSIS**

### **CITY OF CHINO**

PREPARED BY:

Haseeb Qureshi, MES  
hqureshi@urbanxroads.com  
(949) 336-5987

Alyssa Tamase  
atamase@urbanxroads.com  
(949) 336-5988

NOVEMBER 6, 2019

---

10350-06 EA Report



**TABLE OF CONTENTS**

**TABLE OF CONTENTS** .....I  
**APPENDICES** .....II  
**LIST OF EXHIBITS** .....II  
**LIST OF TABLES** .....II  
**LIST OF ABBREVIATED TERMS**.....III  
**EXECUTIVE SUMMARY** .....1  
    ES.1 City of Chino Regulatory Requirements..... 1  
**1 INTRODUCTION** .....3  
    1.1 Site Location..... 3  
    1.2 Project Description..... 3  
**2 EXISTING CONDITIONS** .....9  
    2.1 Overview ..... 9  
    2.2 Electricity..... 11  
    2.3 Natural Gas ..... 12  
    2.4 Transportation Energy Resources..... 14  
**3 REGULATORY BACKGROUND** .....17  
    3.1 Federal Regulations..... 17  
    3.2 California Regulations ..... 18  
**4 PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES** .....21  
    4.1 Evaluation Criteria..... 21  
    4.2 Methodology..... 21  
    4.3 Construction Energy Demands ..... 21  
    4.4 Operational Energy Demands ..... 28  
    4.5 Summary..... 33  
**5 CONCLUSIONS**.....36  
**6 REFERENCES**.....38  
**7 CERTIFICATION**.....41



**APPENDICES**

- APPENDIX 3.1: CALEEMOD CONSTRUCTION EMISSIONS MODEL OUTPUTS
- APPENDIX 3.2: CALEEMOD OPERATIONS EMISSIONS MODEL OUTPUTS
- APPENDIX 3.2: EMFAC2014 MODEL OUTPUTS

**LIST OF EXHIBITS**

EXHIBIT 1-A: LOCATION MAP .....5  
 EXHIBIT 1-B: SITE PLAN.....6

**LIST OF TABLES**

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS .....1  
 TABLE 2-1: TOTAL ELECTRICITY SYSTEM POWER (CALIFORNIA 2018) ..... 10  
 TABLE 2-2: SCE 2018 POWER CONTENT MIX ..... 12  
 TABLE 4-1: PROJECT CONSTRUCTION POWER COST ..... 22  
 TABLE 4-2: PROJECT CONSTRUCTION ELECTRICITY USAGE ..... 22  
 TABLE 4-3: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (1 OF 2) ..... 23  
 TABLE 4-3: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (2 OF 2) ..... 24  
 TABLE 4-4: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (1 OF 2) ..... 25  
 TABLE 4-4: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (2 OF 2) ..... 26  
 TABLE 4-5: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (MHD TRUCKS)..... 27  
 TABLE 4-6: CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION ESTIMATES (HHD TRUCKS)..... 27  
 TABLE 4-7: PROJECT-GENERATED LDA VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION ..... 29  
 TABLE 4-8: PROJECT-GENERATED LDT1 VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION ..... 29  
 TABLE 4-9: PROJECT-GENERATED LDT2 VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION ..... 29  
 TABLE 4-10: PROJECT-GENERATED MDV VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION ..... 30  
 TABLE 4-11: PROJECT-GENERATED LHDT TRAFFIC ANNUAL FUEL CONSUMPTION ..... 30  
 TABLE 4-12: PROJECT-GENERATED MHDT TRAFFIC ANNUAL FUEL CONSUMPTION ..... 30  
 TABLE 4-13: PROJECT-GENERATED HHDT TRAFFIC ANNUAL FUEL CONSUMPTION ..... 31  
 TABLE 4-14: PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (ALL VEHICLES) ..... 31  
 TABLE 4-15: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY ..... 32

## **LIST OF ABBREVIATED TERMS**

(1)	Reference
AQIA	Air Quality Impact Analysis
BACM	Best Available Control Measures
BTU	British Thermal Units
CalEEMod	California Emissions Estimator Model
CAP	Climate Action Plan
CARB	California Air Resources Board
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CITY	City of Chino
CPEP	Clean Power and Electrification Pathway
CPUC	California Public Utilities Commission
DMV	Department of Motor Vehicles
EIA	Energy Information Administration
EVs	Electric Vehicles
EMFAC	EMissions FACtor
FERC	Federal Energy Regulatory Commission
GHG	Greenhouse Gas
GPA	General Plan Amendment
GWh	Gigawatt Hour
GS-1	General Service Rate
HHDT	Heavy-Heavy Duty Trucks
HP-HR-GAL	Horsepower Hours Per Gallon
IEPR	Integrated Energy Policy Report
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
LHDT	Light-Heavy Duty Trucks
MDV	Medium Duty Trucks
MHDT	Medium-Heavy Duty Trucks
MPG	Miles Per Gallon
MPO	Metropolitan Planning Organization

PG&E	Pacific Gas and Electric
Project	Majestic Chino Heritage
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
VMT	Vehicle Miles Traveled

*This page intentionally left blank*

## EXECUTIVE SUMMARY

The results of this *Majestic Chino Heritage Energy Analysis* is summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the California Environmental Quality Act (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.1 CITY OF CHINO REGULATORY REQUIREMENTS

The following regulatory requirements that would reduce air pollutant emissions and greenhouse gas emissions, would also assist in the reduction of energy usage include:

*Mandatory Compliance with Municipal Code Chapter 15.45:* In order to reduce air pollutant emissions, inclusive of greenhouse gas emissions, and promote sustainability through conservation of energy and other natural resources, the Project shall comply with applicable provisions of Chino Municipal Code Chapter 15.45 – Climate Action Plan (CAP) Implementation. Development proposals within the Project site shall conform to CAP Implementation Section 15.45.070 Option 1– “Exceed by 3% the mandatory California Energy Code Title 24, Part 6 standards, in effect at the time of development application submittal for discretionary review.”

Verification of increased energy efficiencies shall be documented in Title 24 Compliance Reports provided by the Applicant and reviewed and approved by the City prior to the issuance of building permits.

*This page intentionally left blank*

# 1 INTRODUCTION

This report presents the results of the energy analysis prepared by Urban Crossroads, Inc., for the proposed Majestic Chino Heritage (Project). The purpose of this report is to ensure that energy implication is considered by the City of Chino, 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 site is located on the southeast corner of Mountain Avenue and Bickmore Avenue in the City of Chino, as shown on Exhibit 1-A. The nearest residential receptor locations to the Project site are located approximately 3,594 feet west of the Project site in the City of Chino Hills.

## 1.2 PROJECT DESCRIPTION

Exhibit 1-B illustrates the preliminary Project site plan. As indicated on Exhibit 1-B, the total development is proposed to consist of up to 2,082,750 square feet of industrial uses. Consistent with the *Majestic Chino Heritage Traffic Impact Analysis (TIA (2))* prepared by Urban Crossroads, Inc., the following land uses are assumed:

- Building 1: 1,168,710 square feet of High-Cube Fulfillment Center Warehouse use
- Building 2: 814,040 square feet of High-Cube Fulfillment Center Without Cold Storage use<sup>1</sup>
- Remainder of Building 2: 100,000 square feet of High-Cube Warehouse with Cold Storage use
- **Total of 2,082,750 square feet**

The Project's anticipated Opening Year is 2022. At the time this energy analysis was prepared, the future tenants of the proposed Project were unknown.

Per the TIA, the Project is expected to generate a net total of approximately 4,440 trip-ends per day (actual vehicles) and includes 824 truck trip-ends per day from the proposed buildings within the Project site (2). This energy study relies on the actual Project trips (as opposed to the passenger car equivalents) to accurately account for the effect of individual truck trips on the study area roadway network.

### EXCESS FILL DIRT SITES

The approximate 96.9-acre Project site is located at the southeast corner of Mountain Avenue and Bickmore Avenue in the City of Chino and is generally below 566 feet above mean sea level, i.e., the "566 Elevation". In order for the Project to be able to be constructed and occupied, it requires that dirt be imported to raise the proposed building Finish Floor elevations so that they are 567-feet above mean sea level. To accomplish this, five nearby borrow sites (or "Excess Fill

<sup>1</sup> For purposes of analysis, similar land used will be combined. As such, this EA will evaluate 1,982,750 square feet of High-Cube Fulfillment Center Warehouse (without Cold Storage) use and 100,000 square feet of High-Cube with Cold Storage use.

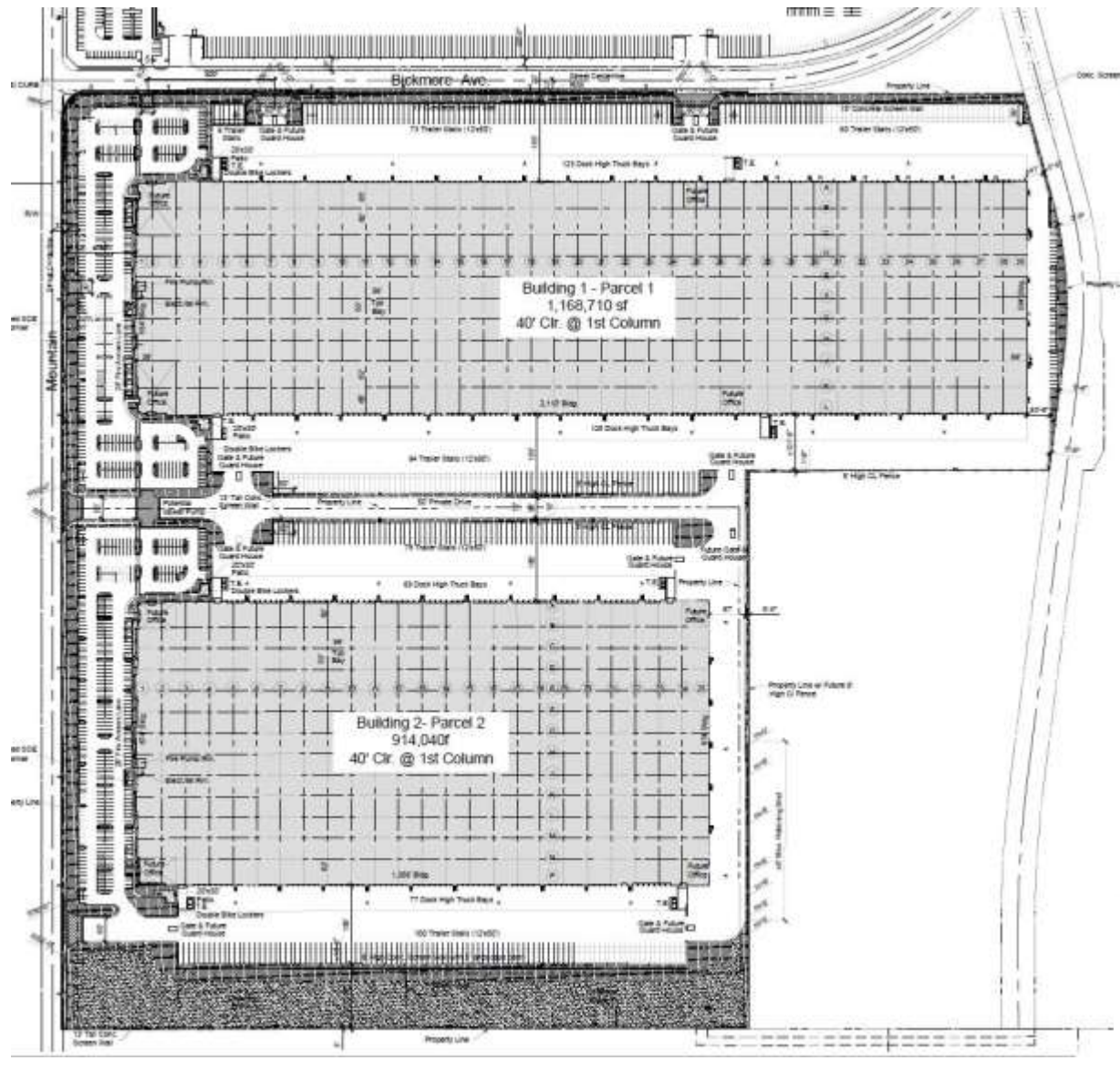
Dirt Sites”) have been identified that can provide export to be used as import for the Project. The order in which soil will be imported from the Excess Fill Dirt Sites is as follows (Exhibit 1-A identifies the disturbance area for each borrow site).

- Excess Fill Dirt Site #1 (Site #1) – an approximate 43-acre parcel located 1.30 roadway miles from the Project site at the southeast corner of Euclid Avenue and Pine Avenue.
- Excess Fill Dirt Site #3 (Site #3) – an approximate 84-acre parcel located 3.00 roadway miles from the Project site on the west side of Cucamonga Avenue, south of the California Institution for Women.
- Excess Fill Dirt Site #4 (Site #4) – an approximate 11-acre parcel located 3.60 roadway miles from the Project site at the southeast corner of Chino Corona Road and East County Road.
- Excess Fill Dirt Site #5 (Site #5) – an approximate 29-acre parcel located 4.20 roadway miles from the Project site north of Chino Corona Road on the west side of Hellman Avenue.
- Excess Fill Dirt Site #2 (Site #2) – an approximate 38-acre parcel located 1.50 roadway miles from the Project site at the southeast corner of Johnson Avenue and Pine Avenue.

EXHIBIT 1-A: LOCATION MAP



EXHIBIT 1-B: SITE PLAN



*This page intentionally left blank*



## 2 EXISTING CONDITIONS

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

### 2.1 OVERVIEW

The most recent data for California's estimated annual energy use is from 2017, released by the EIA's California State Profile and Energy Estimates in 2019 and included:

- Approximately 7,881 trillion British Thermal Unit (BTU) of energy was consumed; (3);
- Approximately 2,115 billion cubic feet of natural gas (3)

The California Energy Commission's 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 are 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 (4)
- 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 (4)
  - Data from the Department of Energy states that approximately 3.9 billion gallons of diesel fuel were consumed in 2017 (5)

The most recent data provided by the United States Energy Information Administration (EIA) for energy use in California by demand sector is from 2017 and is reported as follows:

- Approximately 40.3 percent transportation;
- Approximately 23.1 percent industrial;
- Approximately 18.0 percent residential; and
- Approximately 18.7 percent commercial (6)

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%) (7). 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 fourth-largest producer of crude oil among the 50 states in 2017, after Texas, North Dakota, and Alaska, and, as of January 2018, third in oil refining capacity after Texas and Louisiana.
- California is the largest consumer of jet fuel among the 50 states and accounted for approximately one-fifth of the nation’s jet fuel consumption in 2017. (8)
- California's total energy consumption is second-highest in the nation, but, in 2017, the state's per capita energy consumption ranked 48th, due in part to its mild climate and its energy efficiency programs. (9)
- In 2017, California ranked second in the nation in conventional hydroelectric generation and first as a producer of electricity from solar, geothermal, and biomass resources.
- In 2017, solar PV and solar thermal installations provided about 16% of California’s net electricity generation (10).

As indicated above, California is one of the nation’s leading energy-producing states, and California per capita energy use is among the nation’s most efficient. Given the nature of the proposed Project being industrial uses, 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 industrial uses planned for the Project.

## 2.2 ELECTRICITY

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 had revealed the extent to which the Southern 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 (2013 IEPR) after a collaborative process with other energy agencies, utilities, and air districts (11). If the resource development outlined in the preliminary plan continues as detailed, reliability in Southern California would likely be assured; however, tight resource margins have led energy agencies and the California Air Resources Board (CARB) to develop a contingency plan. This contingency plan was discussed at a public workshop in Los Angeles on August 20, 2014 and is detailed within this Section (12).

Electricity is provided to the Project by Southern California Edison (SCE). SCE provides electric power to more than 14 million persons in 15 counties and in 180 incorporated cities, within a service area encompassing approximately 50,000 square miles. 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 (13).

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 sufficient 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 (14).

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 (15).

**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 California Emissions Estimator Model (CalEEMod) v2016.3.2 model. The following summary of natural gas resources and service providers, delivery systems, and associated regulation is excerpted from information provided by the California Public Utilities Commission (CPUC).

"The California Public Utilities Commission (PUC) 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.

The vast majority of California's natural gas customers are residential and small commercial customers, referred to as "core" customers, who accounted for approximately 32% of the natural gas delivered by California utilities in 2012. Large consumers, like electric generators and industrial customers, referred to as "noncore" customers, accounted for approximately 68% of the natural gas delivered by California utilities in 2012.

The PUC regulates the California utilities' natural gas rates and natural gas services, including in-state transportation over the utilities' transmission and distribution pipeline systems, storage, procurement, metering and billing. Most of the natural gas used in California comes from out-of-state natural gas basins. In 2012, California customers received 35% of their natural gas supply from basins located in the Southwest, 16% from Canada, 40% from the Rocky Mountains, and 9% from basins located within California. California gas utilities may soon also begin receiving biogas into their pipeline systems.

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 consumers are the Gas Transmission Northwest Pipeline, Kern River Pipeline, Transwestern Pipeline, El Paso Pipeline, Ruby Pipeline, Questar Southern Trails and Mojave Pipeline. 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, the PUC often participates in FERC regulatory proceedings to represent the interests of California natural gas consumers.

Most of the natural gas transported via the interstate pipelines, as well as some of the California-produced natural gas, is delivered into the PG&E and SoCalGas intrastate natural gas transmission pipeline systems (commonly referred to as California's "backbone" natural gas pipeline system). Natural gas on the utilities' backbone pipeline systems is then delivered into the local transmission and distribution pipeline systems, or to natural gas storage fields. Some large noncore customers take natural gas directly off the high-pressure backbone pipeline systems, while core customers and other noncore customers take natural gas off the utilities' distribution pipeline systems. The PUC has regulatory jurisdiction over 150,000 miles of utility-owned natural gas pipelines, which transported 82% of the total amount of natural gas delivered to California's gas consumers in 2012.

SDG&E and Southwest Gas' southern division are wholesale customers of SoCalGas, and currently receive all of their natural gas from the SoCalGas system (Southwest Gas also provides natural gas distribution service in the Lake Tahoe area). Some other municipal

wholesale customers are the cities of Palo Alto, Long Beach, and Vernon, which are not regulated by the CPUC.

Some of the natural gas delivered to California customers may be delivered directly to them without being transported over the regulated utility systems. For example, the Kern River/Mojave pipeline system can deliver natural gas directly to some large customers, “bypassing” the utilities’ systems. Much of California-produced natural gas is also delivered directly to large consumers.

PG&E and SoCalGas own and operate several natural gas storage fields that are located in northern and southern California. 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 natural gas demand and allow California natural gas customers to secure natural gas supplies more efficiently. (A portion of the Gill Ranch facility is owned by PG&E).

California’s regulated utilities do not own any natural gas production facilities. All of the natural gas sold by these utilities must be purchased from suppliers and/or marketers. The price of natural gas sold by suppliers and marketers was deregulated by the FERC in the mid-1980’s and is determined by “market forces.” However, the PUC decides whether California’s utilities have taken reasonable steps in order to minimize the cost of natural gas purchased on behalf of their core customers.” (16)

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 PUC 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 2018, the Department of Motor Vehicles (DMV) identified 35 million registered vehicles in California (17), and those vehicles (as noted previously) consume an estimated 19 billion gallons of fuel each year<sup>2</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 170,000 miles of highways and major roadways, more than 27 million passenger vehicles and light trucks, and almost 8 million medium- and heavy-duty vehicles (17). While gasoline consumption has been declining since 2008 it is still by far the dominant fuel. Petroleum comprises about 92 percent of all transportation energy use, excluding fuel consumed for aviation and most marine vessels (18). Nearly 19 billion gallons of on-highway fuel are burned each year, including 15.1 billion gallons

<sup>2</sup> Fuel consumptions estimated utilizing information from EMFAC2014.

of gasoline (including ethanol) and 3.9 billion gallons of diesel fuel (including biodiesel and renewable diesel). In 2016, Californians also used 194 million therms of natural gas as a transportation fuel (19), or the equivalent of 155 million gallons of gasoline.

*This page intentionally left blank*

### 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 are three federal agencies with substantial influence over energy policies and programs. On the state level, the PUC and the California Energy Commissions (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

##### Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA)

The Intermodal Surface Transportation Efficiency Act of 1991 (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 site is provided primarily 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 site.*

##### The Transportation Equity Act for the 21<sup>st</sup> Century (TEA-21)

The Transportation Equity Act for the 21st Century (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 site is located along major transportation corridors with proximate access to the Interstate freeway system. The site selected for the Project facilitates access, acts to reduce vehicle miles traveled, 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

### Integrated Energy Policy Report

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 2018 Integrated Energy Policy Report (2018 IEPR) was adopted February 20, 2019, and continues to work towards improving electricity, natural gas, and transportation fuel energy use in California. The 2018 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 (20). *Electricity would be provided to the Project by SCE and natural gas is provided by SoCalGas. SCE's Clean Power and Electrification Pathway (CPEP) white paper and SoCalGas 2018 Corporate Sustainability Report 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 2018 IEPR.*

### 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 a number of strategies, including assistance to public agencies and fleet operators and encouragement of urban designs that reduce vehicle miles traveled and accommodate pedestrian and bicycle access. *The Project site is located along major transportation corridors with proximate access to the Interstate freeway system. The site selected for the Project facilitates access, acts to reduce vehicle miles traveled, takes advantage of existing infrastructure systems, and promotes land use compatibilities through the introduction of industrial uses on a agricultural-designated site. The Project therefore supports urban design and planning processes identified under the State of California Energy Plan, is consistent with, and would not otherwise interfere with, nor obstruct implementation of the State of California Energy Plan.*

### California Code Title 24, Part 6, Energy Efficiency Standards

California Code of Regulations 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 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 photovoltaic 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 percent less energy compared to the residential homes built under the 2016 standards. Additionally, after implementation of solar photovoltaic systems, homes built under the 2019 standards will about 53 percent less energy than homes built under the 2016 standards. Nonresidential buildings will use approximately 30 percent less energy due to lighting upgrades (21). *The Project will design building shells and building components, such as windows; roof systems; electrical and lighting systems; and heating, ventilating, and air conditioning systems to meet 2019 Title 24 Standard. However, as a conservative measure, the analysis herein assumes compliance with the 2016 Title 24 Standards and no additional reduction for compliance with the 2019 standards have been taken.*

*This page intentionally left blank*

## 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* (22), 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 CalEEMod 2016.3.2 outputs for the *Majestic Chino Heritage Air Quality Impact Analysis* (Urban Crossroads, Inc., 2019) (AQIA) (23) was utilized in this analysis, detailing Project related construction equipment, transportation energy demands, and facility energy demands. These outputs can be referenced in Appendices 3.1 through 3.2.

### 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) (24), the typical power cost per 1,000 square feet of building construction per month is estimated to be \$2.32. For the Majestic Chino Heritage development, the Project plans to develop up to 2,082,700 square feet of industrial uses over the course of 18 months. Based on Table 4-1, the total power cost of the on-site electricity usage during the construction of the proposed Project is estimated to be approximately \$86,973.55. Additionally, as of July 26, 2019, SCE's general service rate schedule (GS-1) for an industrial land uses is \$0.08 per kilowatt hour (kWh) of electricity (25). As shown on Table 4-2, the total electricity usage from on-site Project construction related activities is estimated to be approximately 1,087,169 kWh.

**TABLE 4-1: PROJECT CONSTRUCTION POWER COST**

Land Use	Power Cost (per 1,000 SF of building per month of construction)	Total Building Size (1,000 SF)	Construction Duration (months)	Project Construction Power Cost
High-Cube Fulfillment (Bldg. 1)	\$2.32	1,168.710	18	\$48,804.91
High-Cube Fulfillment (Bldg. 2)	\$2.32	814.040	18	\$33,992.64
High-Cube Cold Storage (Bldg. 2)	\$2.32	100.000	18	\$4,176.00
<b>TOTAL PROJECT CONSTRUCTION POWER COST</b>				<b>\$86,973.55</b>

**TABLE 4-2: PROJECT CONSTRUCTION ELECTRICITY USAGE**

Land Use	Cost per kWh	Project Construction Electricity Usage (kWh)
High-Cube Fulfillment (Bldg. 1)	\$0.08	610,061
High-Cube Fulfillment (Bldg. 2)	\$0.08	424,908
High-Cube Cold Storage (Bldg. 2)	\$0.08	52,200
<b>TOTAL PROJECT CONSTRUCTION ELECTRICITY USAGE (kWh)</b>		<b>1,087,169</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 Table 4-3. 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 (26). 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 Table 4-3, Project construction activities would consume an estimated 129,968 gallons of diesel fuel. 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 4-3: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (1 OF 2)

Activity/Duration	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption (gal. diesel fuel)
Rough Grade/Dirt Import - Site 1 (55 days)	Excavators	158	2	8	0.38	961	2,856
	Other Construction Equipment	172	5	8	0.42	2,890	8,591
	Scrapers	367	5	8	0.48	7,046	20,949
	Tractors/Loaders/Backhoes	97	2	8	0.37	574	1,707
Rough Grade/Dirt Import - Site 3 (22 days)	Excavators	158	2	8	0.38	961	1,142
	Other Construction Equipment	172	5	8	0.42	2,890	3,436
	Scrapers	367	5	8	0.48	7,046	8,380
	Tractors/Loaders/Backhoes	97	2	8	0.37	574	683
Rough Grade/Dirt Import - Site 4 (21 days)	Excavators	158	2	8	0.38	961	1,090
	Other Construction Equipment	172	5	8	0.42	2,890	3,280
	Scrapers	367	5	8	0.48	7,046	7,999
	Tractors/Loaders/Backhoes	97	2	8	0.37	574	652
Rough Grade/Dirt Import - Site 5 (11 days)	Excavators	158	2	8	0.38	961	571
	Other Construction Equipment	172	5	8	0.42	2,890	1,718
	Scrapers	367	5	8	0.48	7,046	4,190
	Tractors/Loaders/Backhoes	97	2	8	0.37	574	341
Rough Grade/Dirt Import - Site 2 (6 days)	Excavators	158	2	8	0.38	961	312
	Other Construction Equipment	172	5	8	0.42	2,890	937
	Scrapers	367	5	8	0.48	7,046	2,285
	Tractors/Loaders/Backhoes	97	2	8	0.37	574	186

TABLE 4-3: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (2 OF 2)

Activity/Duration	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption (gal. diesel fuel)
Project Site Grading (60 days)	Excavators	158	5	8	0.38	2,402	7,789
	Other Construction Equipment	172	2	8	0.42	1,156	3,749
	Tractors/Loaders/Backhoes	97	2	8	0.37	574	1,862
Building Construction (220 days)	Cranes	231	1	8	0.29	536	6,373
	Forklifts	89	3	8	0.20	427	5,080
	Generator Sets	84	1	8	0.74	497	5,914
	Tractors/Loaders/Backhoes	97	3	8	0.37	861	10,243
	Welders	46	1	8	0.45	166	1,969
Paving (110 days)	Pavers	130	2	8	0.42	874	5,194
	Paving Equipment	132	2	8	0.36	760	4,521
	Rollers	80	2	8	0.38	486	2,892
Architectural Coating (190 days)	Air Compressors	78	1	8	0.48	300	3,076
<b>TOTAL CONSTRUCTION PROCESS FUEL DEMAND (GALLONS DIESEL FUEL)</b>							<b>129,968</b>

### 4.3.3 CONSTRUCTION WORKER FUEL ESTIMATES

It is assumed that all construction worker trips are from light duty autos (LDA) along area roadways. With respect to estimated vehicle miles traveled (VMT), the construction worker trips would generate an estimated 6,834,030 VMT (23). Data regarding Project related construction worker trips were based on CalEEMod 2016.3.2 model defaults utilized within the AQIA.

Vehicle fuel efficiencies for LDA were estimated using information generated within the 2014 version of the Emissions FACTor model (EMFAC) developed by CARB. EMFAC2014 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 (27). EMFAC2014 was run for the LDA vehicle class within the California sub-area for the 2021 and 2022 calendar years. Data from EMFAC2014 is shown in Appendix 3.3.

As generated by EMFAC2014, an aggregated fuel economy of LDAs ranging from model year 1974 to model years 2021 and 2022 are estimated to have fuel efficiencies of 31.28 and 32.58 miles per gallon (mpg), respectively. Table 4-4 provides an estimated annual fuel consumption resulting from the Project generated by LDAs related to construction worker trips. Based on Table 4-4, it is estimated that 209,827 gallons of fuel will be consumed related to construction worker trips during full construction of the proposed Project. Project 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.

**TABLE 4-4: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (1 OF 2)**

Construction Activity	Worker Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
<b>2021 Construction Activities</b>					
Rough Grade/Dirt Import - Site 1 (55 days)	36	14.7	29,106	31.28	931
Rough Grade/Dirt Import - Site 3 (21 days)	36	14.7	11,642	31.28	372
Rough Grade/Dirt Import - Site 4 (22 days)	36	14.7	11,113	31.28	355
Rough Grade/Dirt Import - Site 5 (11 days)	36	14.7	5,821	31.28	186
Rough Grade/Dirt Import - Site 2 (6 days)	36	14.7	3,175	31.28	102
On-Site Grading (31 days)	23	14.7	10,481	31.28	335

**TABLE 4-4: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES (2 OF 2)**

Construction Activity	Worker Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
<b>2022 Construction Activities</b>					
On-Site Grading (29 days)	23	14.7	9,805	32.58	301
Building Construction (220 days)	1,774	14.7	5,737,116	32.58	176,072
Paving (110 days)	15	14.7	24,255	32.58	744
Architectural Coating (190 days)	355	14.7	991,515	32.58	30,430
<b>TOTAL CONSTRUCTION WORKER FUEL CONSUMPTION</b>					<b>209,827</b>

#### 4.3.4 CONSTRUCTION VENDOR/HAULING FUEL ESTIMATES

With respect to estimated VMT, the construction vendor/hauling trips would generate an estimated 1,372,340 VMT along area roadways (23). 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). It is assumed that 100% of all hauling trips are from HHDT. These assumptions are consistent with the 2016.3.2 CalEEMod defaults utilized within the within the AQIA (23). Vehicle fuel efficiencies for MHDTs and HHDTs were estimated using information generated within EMFAC2014. For purposes of this analysis, EMFAC2014 was run for the MHDT and HHDT vehicle class within the California sub-area for the 2021 and 2022 calendar years. Data from EMFAC2014 is shown in Appendix 3.3.

As generated by EMFAC2014, an aggregated fuel economy of MHDTs ranging from model year 1974 to model year 2022 are estimated to have a fuel efficiency of 8.86 mpg. Additionally, for model years 2021 and 2022, HHDTs are estimated to have fuel efficiencies of 6.38 mpg and 6.30 mpg, respectively. Based on Table 4-5, it is estimated that 59,276 gallons of fuel will be consumed related to construction vendor trips (MHDTs) during full construction of the proposed Project. Table 4-6 shows the estimated fuel economy of HHDTs accessing the Project site. Based on Table 4-6, fuel consumption from construction vendor and hauling trips (HHDTs) will total approximately 133,325 gallons. The total fuel consumption from construction vendor and hauling trips (MHDTs and HHDTs) is 192,601 gallons. 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.

**TABLE 4-5: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (MHD TRUCKS)**

Construction Activity	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
<b>Vendor</b>					
Building Construction (220 days)	346	6.9	525,228	8.86	59,276
<b>PROJECT MHD TOTAL</b>					<b>59,276</b>

**TABLE 4-6: CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION ESTIMATES (HHD TRUCKS)**

Construction Activity	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
<b>Vendor</b>					
Building Construction (220 days)	346	6.9	525,228	6.38	82,262
<b>Hauling</b>					
Rough Grade/Dirt Import - Site 1 (55 days)	68,522	1.3	89,079	6.30	14,131
Rough Grade/Dirt Import - Site 3 (21 days)	23,144	3.0	69,432	6.30	11,015
Rough Grade/Dirt Import - Site 4 (22 days)	24,928	3.6	89,741	6.30	14,237
Rough Grade/Dirt Import - Site 5 (11 days)	14,648	4.2	61,522	6.30	9,760
Rough Grade/Dirt Import - Site 2 (6 days)	8,074	1.5	12,111	6.30	1,921
<b>PROJECT HHDT TOTAL</b>					<b>133,325</b>

#### 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, California Code of Regulations 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 that would be consumed by Project-generated traffic is a function of total VMT and estimated vehicle fuel economies of vehicles accessing the Project site.

##### **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 11,825,856 annual VMT along area roadways for all LDAs with full build-out of the Project (28). As generated by EMFAC2014, an aggregated fuel economy of LDAs ranging from model year 1974 to model year 2022 are estimated to have a fuel efficiency of 32.58 mpg. Table 4-7 provides an estimated range

of annual fuel consumption resulting from Project generated LDAs. Based on Table 4-7, it is estimated that 362,935 gallons of fuel will be consumed from Project generated LDA trips.

**TABLE 4-7: PROJECT-GENERATED LDA VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
11,825,856	32.58	362,935

#### 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 764,366 annual VMT along area roadways for all light-duty trucks (LDT1)<sup>3</sup> vehicles with full build-out of the Project (28). As generated by EMFAC2014, an aggregated fuel economy of LDT1s ranging from model year 1974 to model year 2022 are estimated to have a fuel efficiency of 25.82 mpg. Table 4-8 provides an estimated range of annual fuel consumption resulting from Project generated LDT1s. Based on Table 4-8, it is estimated that 29,601 gallons of fuel will be consumed from Project generated LDT1 trips.

**TABLE 4-8: PROJECT-GENERATED LDT1 VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
764,366	25.82	29,601

Additionally, the Project would generate an estimated 3,816,718 annual VMT along area roadways for all LDT2<sup>4</sup> vehicles with full build-out of the Project (28). As generated by EMFAC2014, an aggregated fuel economy of LDT2s ranging from model year 1974 to model year 2022 are estimated to have a fuel efficiency of 23.29 mpg. Table 4-9 provides an estimated range of annual fuel consumption resulting from Project generated LDT2s. Based on Table 4-9, it is estimated that 163,863 gallons of fuel will be consumed from Project generated LDT2 trips.

**TABLE 4-9: PROJECT-GENERATED LDT2 VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
3,816,718	23.29	163,863

#### 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 2,666,302 annual VMT along area roadways for all medium-duty trucks (MDV) vehicles with full build-out of the Project (28).

<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.

As generated by EMFAC2014, an aggregated fuel economy of MDVs ranging from model year 1974 to model year 2022 are estimated to have a fuel efficiency of 16.85 mpg. Table 4-10 provides an estimated range of annual fuel consumption resulting from Project generated MDVs. Based on Table 4-10, it is estimated that 158,280 gallons of fuel will be consumed from Project generated MDV trips.

**TABLE 4-10: PROJECT-GENERATED MDV VEHICLE TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
2,666,302	16.85	158,280

#### **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 1,034,358 annual VMT along area roadways for all light-heavy-duty trucks (LHDTs) with full build-out of the Project (28). As generated by EMFAC2014, an aggregated fuel economy of LHDTs ranging from model year 1974 to model year 2022 are estimated to have a fuel efficiency of 14.44 mpg. Table 4-11 provides an estimated range of annual fuel consumption resulting from Project generated LHDTs. Based on Table 4-11, it is estimated that 71,649 gallons of fuel will be consumed from Project generated LHDT trips.

**TABLE 4-11: PROJECT-GENERATED LHDT TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
1,034,358	14.44	71,649

#### **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 847,695 annual VMT along area roadways for all MHDTs with full build-out of the Project (28). As generated by EMFAC2014, an aggregated fuel economy of MHDTs ranging from model year 1974 to model year 2022 are estimated to have a fuel efficiency of 8.86 mpg. Table 4-12 provides an estimated range of annual fuel consumption resulting from Project generated MHDTs. Based on Table 4-12, it is estimated that 95,668 gallons of fuel will be consumed from Project generated MHDT trips.

**TABLE 4-12: PROJECT-GENERATED MHDT TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
847,695	8.86	95,668

## 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 6,085,345 annual VMT along area roadways for all HHDTs with full build-out of the Project (28). As generated by EMFAC2014, an aggregated fuel economy of HHDTs ranging from model year 1974 to model year 2022 are estimated to have a fuel efficiency of 6.38 mpg. Table 4-13 provides an estimated range of annual fuel consumption resulting from Project generated HHDTs. Based on Table 4-13, it is estimated that 953,091 gallons of fuel will be consumed from Project generated HHDT trips.

**TABLE 4-13: PROJECT-GENERATED HHDT TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
6,085,345	6.38	953,091

As summarized on Table 4-14, the Project will result in 27,040,638 annual VMT and an estimated annual fuel consumption of 1,835,086 gallons of fuel.

**TABLE 4-14: PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (ALL VEHICLES)**

Vehicle Type	Annual VMT	Estimated Annual Fuel Consumption (gallons)
LDA	11,825,856	362,935
LDT1	764,366	29,601
LDT2	3,816,718	163,863
MDV	2,666,302	158,280
LHDT	1,034,358	71,649
MHDT	847,695	95,668
HHDT	6,085,345	953,091
<b>Total (All Vehicles)</b>	<b>27,040,638</b>	<b>1,835,086</b>

### 4.4.2 FACILITY ENERGY DEMANDS

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 (29). Non-building energy use, or “plug-in” energy use can be further subdivided by specific end-use (refrigeration, cooking, appliances, etc.).

### 4.4.2 FACILITY ENERGY DEMANDS

Project building operations and Project site maintenance activities would result in the consumption of natural gas and electricity. Natural gas would be supplied to the Project by

SoCalGas; electricity would be supplied to the Project by SCE. Annual natural gas and electricity demands of the Project are summarized in Table 4-15.

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 (29). Non-building energy use, or “plug-in” energy use can be further subdivided by specific end-use (refrigeration, cooking, appliances, etc.).

**TABLE 4-15: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY**

<b>Natural Gas Demand</b>	<b>kBTU/year</b>
Other Non-Asphalt Surfaces	0
Parking Lot	0
High-Cube Fulfillment Center Warehouse Use	5,176,000
High-Cube Cold Storage	4,024,880
<b>TOTAL PROJECT NATURAL GAS DEMAND</b>	<b>9,200,880</b>
<b>Electricity Demand</b>	<b>kWh/year</b>
Other Non-Asphalt Surfaces	0
Parking Lot	573,268
High-Cube Fulfillment Center Warehouse Use	3,995,000
High-Cube Cold Storage	4,679,170
<b>TOTAL PROJECT ELECTRICITY DEMAND</b>	<b>9,247,438</b>

kBTU – kilo-British Thermal Units

#### **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 4-14 represent likely potential maximums that would occur for the Project. Under subsequent future conditions, average fuel economies of vehicles accessing the Project site 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 proposed Project is assumed to be around \$86,973.55. Additionally, based on the assumed power cost, it is estimated that the total electricity usage during construction, after full Project build-out, is calculated to be around 1,087,169 kWh.

Construction equipment used by the Project would result in single event consumption of approximately 129,968 gallons of diesel fuel. 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 proposed Project would result in the estimated fuel consumption of 209,827 gallons of fuel. Additionally, fuel consumption from construction vendor and hauling trips (MHDTs and HHDTs) will total approximately 192,601 gallons. 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 2018 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 (20). 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 362,935 gallons of fuel consumption per year for LDAs, 29,601 gallons of fuel for LDT1s, 163,863 gallons of fuel for LDT2s, and 158,280 gallons for fuel for MDVs. Additionally, the operational of the Project would result in an estimated 71,649 gallons of fuel consumption per year for LHDTs, an estimated 95,668 gallons of fuel consumption per year for MHDTs, and 953,091 gallons of fuel consumption per year for HHDTs for the year 2022. The total estimated

annual fuel consumption from Project generated VMT would result in a fuel demand 1,835,086 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 LDAs, LDT1s, LDT2s, MDVs, and LHDs 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: 9,200,880 kBTU/year of natural gas; and 9,247,438 kWh/year of electricity. Natural gas would be supplied to the Project by SoCalGas; electricity would be supplied by SCE. The Project proposes conventional warehouse 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 warehouse projects of similar scale and configuration.

Additionally, the Project is will implement the project design features (as summarized in the Executive Summary). Implementation of these project design features combined with the required Title 24 standards will ensure that the Project energy demands would not be considered inefficient, wasteful, or otherwise unnecessary.

*This page intentionally left blank*

---

## 5 CONCLUSIONS

---

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

---

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.

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

---

The Project would implement energy-saving features consistent with the reduction measures set forth in the City of Chino CAP. As per the City's CAP, the Project shall comply with applicable provisions of Chino Municipal Code Chapter 15.45 – CAP Implementation. Development proposals within the Project site shall conform to CAP Implementation Section 15.45.070 Option 1– “Exceed by 3% the mandatory California Energy Code Title 24, Part 6 standards, in effect at the time of development application submittal for discretionary review.”

The Project would provide for, and promote, energy efficiencies beyond those required under other applicable federal and State of California standards and regulations, and in so doing would meet or exceed all California Building Standards Code Title 24 standards. Moreover, energy consumed by the Project's operation is calculated to be comparable to, or less than, 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.

*This page intentionally left blank*

## 6 REFERENCES

1. **Association of Environmental Professionals.** *2018 CEQA California Environmental Quality Act.* 2018.
2. **Urban Crossroads, Inc.** *Majestic Chino Heritage Traffic Impact Analysis.* Costa Mesa : s.n., 2019.
3. **Administration, U.S. Energy Information.** California State Profile and Energy Estimates. [Online] <https://www.eia.gov/state/data.php?sid=CA#ConsumptionExpenditures>.
4. **California Energy Commission.** *Transportation Energy Demand Forecast 2018-2030.* 2018.
5. **Alternate Fuels Data Center.** *U.S. Department of Energy.* [Online] <https://afdc.energy.gov/states/ca>.
6. **U.S. Energy Information Administration.** California Energy Consumption by End-Use Sector. *California State Profile and Energy Estimates.* [Online] <https://www.eia.gov/state/?sid=CA#tabs-2>.
7. **California Energy Commission.** Total System Electric Generation. *CA.gov.* [Online] [https://www.energy.ca.gov/almanac/electricity\\_data/total\\_system\\_power.html](https://www.energy.ca.gov/almanac/electricity_data/total_system_power.html).
8. **Jet fuel consumption, price, and expenditure estimates, 2017.** *U.S. Energy Information Administration.* [Online] [https://www.eia.gov/state/seds/data.php?incfile=/state/seds/sep\\_fuel/html/fuel\\_jf.html](https://www.eia.gov/state/seds/data.php?incfile=/state/seds/sep_fuel/html/fuel_jf.html).
9. **State Profile Data: California.** *U.S. Energy and Information Administration.* [Online] <https://www.eia.gov/state/data.php?sid=CA>.
10. **U.S. Energy Information Administration.** State Profile and Energy Estimates. *Independent Statistics and Analysis.* [Online] <http://www.eia.gov/state/?sid=CA#tabs2..>
11. **California Energy Commission.** 2013 Integrated Energy Policy Report. [Online] 2013. <http://www.energy.ca.gov/2013publications/CEC-100-2013-001/CEC-100-2013-001-CMF.pdf>.
12. —. *2014 IEPR Update.* 2014.
13. —. **California Energy Almanac.** *Utility Energy Supply Plans from 2013.* [Online] [https://www.energy.ca.gov/almanac/electricity\\_data/s-2\\_supply\\_forms\\_2013/](https://www.energy.ca.gov/almanac/electricity_data/s-2_supply_forms_2013/).
14. **California ISO.** Understanding the ISO. [Online] <http://www.caiso.com/about/Pages/OurBusiness/UnderstandingtheISO/default.aspx>.
15. **Southern California Edison.** 2018 Power Content Label. *Southern California Edison.* [Online] 2018. <https://www.sce.com/sites/default/files/inline-files/2018SCEPCL.pdf>.
16. **California Public Utilities Commission.** Natural Gas and California. [Online] <http://www.cpuc.ca.gov/general.aspx?id=4802>.
17. **Department of Motor Vehicles.** *State of California Department of Motor Vehicles Statistics For Publication January Through December 2017.* 2018.
18. **U.S. Energy Information Administration.** Use of Energy in the United States Explained Energy Use for Transportation. [Online] [https://www.eia.gov/energyexplained/?page=us\\_energy\\_transportation](https://www.eia.gov/energyexplained/?page=us_energy_transportation).
19. —. **Natural Gas Consumption by End Use.** [Online] [https://www.eia.gov/dnav/ng/ng\\_cons\\_sum\\_dc\\_u\\_sca\\_a.htm](https://www.eia.gov/dnav/ng/ng_cons_sum_dc_u_sca_a.htm).
20. **California Energy Commission Staff.** 2018 Integrated Energy Policy Report Update. [Online] 2018. [Cited: May 23, 2019.] [https://www.energy.ca.gov/2018\\_energypolicy/](https://www.energy.ca.gov/2018_energypolicy/).

21. The California Energy Commission. 2019 Building Energy Efficiency Standards . *California Energy Commission*. [Online] 2018.  
[https://www.energy.ca.gov/title24/2019standards/documents/2018\\_Title\\_24\\_2019\\_Building\\_Standards\\_FAQ.pdf](https://www.energy.ca.gov/title24/2019standards/documents/2018_Title_24_2019_Building_Standards_FAQ.pdf).
22. State of California. *California Environmental Quality Act Guideline, California Public Resources Code, Title 14, Division 6, Chapter 3,*.
23. Urban Crossroads, Inc. *Majestic Chino Heritage Air Quality Impact Analysis*. 2019.
24. Pray, Richard. *2017 National Construction Estimator*. Carlsbad : Craftsman Book Company, 2017.
25. Southern California Edison. Schedule GS-1 General Service. *Regulatory Information - Rates Pricing*. [Online] [https://library.sce.com/content/dam/sce-doclib/public/regulatory/tariff/electric/schedules/general-service-&-industrial-rates/ELECTRIC\\_SCHEDULES\\_GS-1.pdf](https://library.sce.com/content/dam/sce-doclib/public/regulatory/tariff/electric/schedules/general-service-&-industrial-rates/ELECTRIC_SCHEDULES_GS-1.pdf).
26. California Air Resources Board. *Methods to Find the Cost-Effectiveness of Funding Air Quality Projects For Evaluating Motor Vehicle Registration Fee Projects And Congestion Mitigation and Air Quality Improvement (CMAQ) Projects, Emission Factor Tables*. 2018.
27. California Department of Transportation. EMFAC Software. [Online] <http://www.dot.ca.gov/hq/env/air/pages/emfac.htm>.
28. Urban Crossroads, Inc. *IDI Rider 2 and 4 High Cube Warehouse and Perris Valley Storm Drain Channel Improvement Air Quality Impact Analysis*. 2019.
29. State of California. Title 24, Part 6, of the California Code of Regulations. *California's Energy Efficiency Standards for Residential and Nonresidential Buildings*. [Online] <http://www.energy.ca.gov/title24/>.

*This page intentionally left blank*

## 7 CERTIFICATION

The contents of this energy analysis report represent an accurate depiction of the environmental impacts associated with the proposed Majestic Chino Heritage 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  
Associate Principal  
URBAN CROSSROADS, INC.  
260 E. Baker, Suite 200  
Costa Mesa, CA 92626  
(949) 336-5987  
[hqureshi@urbanxroads.com](mailto:hqureshi@urbanxroads.com)

### 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

Environmental Site Assessment – American Society for Testing and Materials • June, 2013  
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

*This page intentionally left blank*

## **APPENDIX 3.1:**

### **CALEEMOD CONSTRUCTION EMISSIONS MODEL OUTPUTS**

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated)**  
**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<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**

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #1 is expected to be conducted in 55 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #1 is approximately 1.3 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
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
tblConstructionPhase	NumDays	155.00	55.00
tblConstructionPhase	NumDays	155.00	55.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00

## Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	462,518.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	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	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.30
tblTripsAndVMT	HaulingTripLength	20.00	1.30
tblTripsAndVMT	HaulingTripNumber	57,815.00	68,522.00
tblVehicleTrips	CC_TL	8.40	0.00

## Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

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	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
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

**2.0 Emissions Summary**

---



Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-11-2021	9-10-2021	6.5898	5.7961
		Highest	6.5898	5.7961

**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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
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>8.6636</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
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>8.6636</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</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	Rough Grade Site	Grading	6/11/2021	8/26/2021	5	55	
2	Import Dirt (Hauling from Site #1)	Grading	6/11/2021	8/26/2021	5	55	

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

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

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

**Acres of Paving: 49.13**

**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
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #1)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #1)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #1)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #1)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #1)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #1)	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
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	1.30	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #1)	5	13.00	0.00	68,522.00	14.70	6.90	1.30	LD_Mix	HDT_Mix	HHDT

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Rough Grade Site - 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					0.1458	0.0000	0.1458	0.0158	0.0000	0.0158	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1612	1.8169	1.3105	2.5900e-003		0.0760	0.0760		0.0699	0.0699	0.0000	227.9811	227.9811	0.0737	0.0000	229.8245
<b>Total</b>	<b>0.1612</b>	<b>1.8169</b>	<b>1.3105</b>	<b>2.5900e-003</b>	<b>0.1458</b>	<b>0.0760</b>	<b>0.2218</b>	<b>0.0158</b>	<b>0.0699</b>	<b>0.0857</b>	<b>0.0000</b>	<b>227.9811</b>	<b>227.9811</b>	<b>0.0737</b>	<b>0.0000</b>	<b>229.8245</b>

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.2 Rough Grade Site - 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	2.9100e-003	2.2000e-003	0.0225	6.0000e-005	6.9400e-003	5.0000e-005	6.9800e-003	1.8400e-003	4.0000e-005	1.8800e-003	0.0000	5.7551	5.7551	1.6000e-004	0.0000	5.7592
<b>Total</b>	<b>2.9100e-003</b>	<b>2.2000e-003</b>	<b>0.0225</b>	<b>6.0000e-005</b>	<b>6.9400e-003</b>	<b>5.0000e-005</b>	<b>6.9800e-003</b>	<b>1.8400e-003</b>	<b>4.0000e-005</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>5.7551</b>	<b>5.7551</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>5.7592</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					0.0569	0.0000	0.0569	6.1400e-003	0.0000	6.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0639	1.2491	1.4988	2.5900e-003		0.0521	0.0521		0.0521	0.0521	0.0000	227.9809	227.9809	0.0737	0.0000	229.8242
<b>Total</b>	<b>0.0639</b>	<b>1.2491</b>	<b>1.4988</b>	<b>2.5900e-003</b>	<b>0.0569</b>	<b>0.0521</b>	<b>0.1090</b>	<b>6.1400e-003</b>	<b>0.0521</b>	<b>0.0583</b>	<b>0.0000</b>	<b>227.9809</b>	<b>227.9809</b>	<b>0.0737</b>	<b>0.0000</b>	<b>229.8242</b>

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.2 Rough Grade Site - 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	2.9100e-003	2.2000e-003	0.0225	6.0000e-005	6.9400e-003	5.0000e-005	6.9800e-003	1.8400e-003	4.0000e-005	1.8800e-003	0.0000	5.7551	5.7551	1.6000e-004	0.0000	5.7592
<b>Total</b>	<b>2.9100e-003</b>	<b>2.2000e-003</b>	<b>0.0225</b>	<b>6.0000e-005</b>	<b>6.9400e-003</b>	<b>5.0000e-005</b>	<b>6.9800e-003</b>	<b>1.8400e-003</b>	<b>4.0000e-005</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>5.7551</b>	<b>5.7551</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>5.7592</b>

**3.3 Import Dirt (Hauling from Site #1) - 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					0.0262	0.0000	0.0262	3.9600e-003	0.0000	3.9600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0472	0.4799	0.5145	7.9000e-004		0.0246	0.0246		0.0227	0.0227	0.0000	69.7524	69.7524	0.0226	0.0000	70.3164
<b>Total</b>	<b>0.0472</b>	<b>0.4799</b>	<b>0.5145</b>	<b>7.9000e-004</b>	<b>0.0262</b>	<b>0.0246</b>	<b>0.0508</b>	<b>3.9600e-003</b>	<b>0.0227</b>	<b>0.0266</b>	<b>0.0000</b>	<b>69.7524</b>	<b>69.7524</b>	<b>0.0226</b>	<b>0.0000</b>	<b>70.3164</b>

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.3 Import Dirt (Hauling from Site #1) - 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	0.0816	3.9495	0.4678	6.4800e-003	0.0390	2.5100e-003	0.0415	0.0108	2.4000e-003	0.0132	0.0000	622.2606	622.2606	0.0964	0.0000	624.6707
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	1.6500e-003	1.2400e-003	0.0127	4.0000e-005	3.9200e-003	3.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0600e-003	0.0000	3.2529	3.2529	9.0000e-005	0.0000	3.2552
<b>Total</b>	<b>0.0833</b>	<b>3.9508</b>	<b>0.4805</b>	<b>6.5200e-003</b>	<b>0.0429</b>	<b>2.5400e-003</b>	<b>0.0455</b>	<b>0.0118</b>	<b>2.4200e-003</b>	<b>0.0142</b>	<b>0.0000</b>	<b>625.5135</b>	<b>625.5135</b>	<b>0.0965</b>	<b>0.0000</b>	<b>627.9259</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					0.0102	0.0000	0.0102	1.5400e-003	0.0000	1.5400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0196	0.3790	0.6044	7.9000e-004		0.0183	0.0183		0.0183	0.0183	0.0000	69.7523	69.7523	0.0226	0.0000	70.3163
<b>Total</b>	<b>0.0196</b>	<b>0.3790</b>	<b>0.6044</b>	<b>7.9000e-004</b>	<b>0.0102</b>	<b>0.0183</b>	<b>0.0285</b>	<b>1.5400e-003</b>	<b>0.0183</b>	<b>0.0198</b>	<b>0.0000</b>	<b>69.7523</b>	<b>69.7523</b>	<b>0.0226</b>	<b>0.0000</b>	<b>70.3163</b>

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.3 Import Dirt (Hauling from Site #1) - 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	0.0816	3.9495	0.4678	6.4800e-003	0.0390	2.5100e-003	0.0415	0.0108	2.4000e-003	0.0132	0.0000	622.2606	622.2606	0.0964	0.0000	624.6707
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	1.6500e-003	1.2400e-003	0.0127	4.0000e-005	3.9200e-003	3.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0600e-003	0.0000	3.2529	3.2529	9.0000e-005	0.0000	3.2552
<b>Total</b>	<b>0.0833</b>	<b>3.9508</b>	<b>0.4805</b>	<b>6.5200e-003</b>	<b>0.0429</b>	<b>2.5400e-003</b>	<b>0.0455</b>	<b>0.0118</b>	<b>2.4200e-003</b>	<b>0.0142</b>	<b>0.0000</b>	<b>625.5135</b>	<b>625.5135</b>	<b>0.0965</b>	<b>0.0000</b>	<b>627.9259</b>

**4.0 Operational Detail - Mobile**

---

**4.1 Mitigation Measures Mobile**

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	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 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
Refrigerated Warehouse-No	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







## Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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>

## Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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**

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
Unmitigated	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970

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	0.9951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3900e-003	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
<b>Total</b>	<b>8.6637</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-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	0.9951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3900e-003	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
<b>Total</b>	<b>8.6637</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-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 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
Refrigerated Warehouse-No Rail	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>

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-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 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
Refrigerated Warehouse-No Rail	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**

---

**8.1 Mitigation Measures Waste**

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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>

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

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

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

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

## 11.0 Vegetation

---

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated)**  
**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<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**

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #5 is expected to be conducted in 22 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #3 is approximately 3.0 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
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
tblConstructionPhase	NumDays	155.00	22.00
tblConstructionPhase	NumDays	155.00	22.00
tblEnergyUse	LightingElect	0.35	0.00

## Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	156,222.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	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	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripNumber	19,528.00	23,144.00

## Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

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	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
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

**2.0 Emissions Summary**

---



Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-27-2021	9-30-2021	2.6007	2.2709
		Highest	2.6007	2.2709

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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
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>8.6636</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
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>8.6636</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</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	Rough Grade Site	Grading	8/27/2021	9/27/2021	5	22	
2	Import Dirt (Hauling from Site #3)	Grading	8/27/2021	9/27/2021	5	22	

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

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

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

**Acres of Paving: 49.13**

**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
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #3)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #3)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #3)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #3)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #3)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #3)	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
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	3.00	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #3)	5	13.00	0.00	23,144.00	14.70	6.90	3.00	LD_Mix	HDT_Mix	HHDT

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Rough Grade Site - 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					0.0583	0.0000	0.0583	6.3000e-003	0.0000	6.3000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0645	0.7267	0.5242	1.0400e-003		0.0304	0.0304		0.0280	0.0280	0.0000	91.1925	91.1925	0.0295	0.0000	91.9298
<b>Total</b>	<b>0.0645</b>	<b>0.7267</b>	<b>0.5242</b>	<b>1.0400e-003</b>	<b>0.0583</b>	<b>0.0304</b>	<b>0.0887</b>	<b>6.3000e-003</b>	<b>0.0280</b>	<b>0.0343</b>	<b>0.0000</b>	<b>91.1925</b>	<b>91.1925</b>	<b>0.0295</b>	<b>0.0000</b>	<b>91.9298</b>

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.2 Rough Grade Site - 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	1.1600e-003	8.8000e-004	9.0100e-003	3.0000e-005	2.7700e-003	2.0000e-005	2.7900e-003	7.4000e-004	2.0000e-005	7.5000e-004	0.0000	2.3021	2.3021	6.0000e-005	0.0000	2.3037
<b>Total</b>	<b>1.1600e-003</b>	<b>8.8000e-004</b>	<b>9.0100e-003</b>	<b>3.0000e-005</b>	<b>2.7700e-003</b>	<b>2.0000e-005</b>	<b>2.7900e-003</b>	<b>7.4000e-004</b>	<b>2.0000e-005</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>2.3021</b>	<b>2.3021</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.3037</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					0.0228	0.0000	0.0228	2.4600e-003	0.0000	2.4600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0255	0.4996	0.5995	1.0400e-003		0.0209	0.0209		0.0209	0.0209	0.0000	91.1924	91.1924	0.0295	0.0000	91.9297
<b>Total</b>	<b>0.0255</b>	<b>0.4996</b>	<b>0.5995</b>	<b>1.0400e-003</b>	<b>0.0228</b>	<b>0.0209</b>	<b>0.0436</b>	<b>2.4600e-003</b>	<b>0.0209</b>	<b>0.0233</b>	<b>0.0000</b>	<b>91.1924</b>	<b>91.1924</b>	<b>0.0295</b>	<b>0.0000</b>	<b>91.9297</b>

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.2 Rough Grade Site - 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	1.1600e-003	8.8000e-004	9.0100e-003	3.0000e-005	2.7700e-003	2.0000e-005	2.7900e-003	7.4000e-004	2.0000e-005	7.5000e-004	0.0000	2.3021	2.3021	6.0000e-005	0.0000	2.3037
<b>Total</b>	<b>1.1600e-003</b>	<b>8.8000e-004</b>	<b>9.0100e-003</b>	<b>3.0000e-005</b>	<b>2.7700e-003</b>	<b>2.0000e-005</b>	<b>2.7900e-003</b>	<b>7.4000e-004</b>	<b>2.0000e-005</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>2.3021</b>	<b>2.3021</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.3037</b>

**3.3 Import Dirt (Hauling from Site #3) - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.8300e-003	0.0000	8.8300e-003	1.3400e-003	0.0000	1.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0189	0.1920	0.2058	3.2000e-004		9.8600e-003	9.8600e-003		9.0700e-003	9.0700e-003	0.0000	27.9010	27.9010	9.0200e-003	0.0000	28.1265
<b>Total</b>	<b>0.0189</b>	<b>0.1920</b>	<b>0.2058</b>	<b>3.2000e-004</b>	<b>8.8300e-003</b>	<b>9.8600e-003</b>	<b>0.0187</b>	<b>1.3400e-003</b>	<b>9.0700e-003</b>	<b>0.0104</b>	<b>0.0000</b>	<b>27.9010</b>	<b>27.9010</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>28.1265</b>

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.3 Import Dirt (Hauling from Site #3) - 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	0.0314	1.4584	0.1831	2.8000e-003	0.0301	1.4500e-003	0.0315	8.2800e-003	1.3900e-003	9.6700e-003	0.0000	268.9539	268.9539	0.0340	0.0000	269.8034
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	6.6000e-004	5.0000e-004	5.1000e-003	1.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3012	1.3012	4.0000e-005	0.0000	1.3021
<b>Total</b>	<b>0.0321</b>	<b>1.4589</b>	<b>0.1882</b>	<b>2.8100e-003</b>	<b>0.0317</b>	<b>1.4600e-003</b>	<b>0.0331</b>	<b>8.7000e-003</b>	<b>1.4000e-003</b>	<b>0.0101</b>	<b>0.0000</b>	<b>270.2550</b>	<b>270.2550</b>	<b>0.0340</b>	<b>0.0000</b>	<b>271.1055</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.4500e-003	0.0000	3.4500e-003	5.2000e-004	0.0000	5.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.8400e-003	0.1516	0.2418	3.2000e-004		7.3200e-003	7.3200e-003		7.3200e-003	7.3200e-003	0.0000	27.9009	27.9009	9.0200e-003	0.0000	28.1265
<b>Total</b>	<b>7.8400e-003</b>	<b>0.1516</b>	<b>0.2418</b>	<b>3.2000e-004</b>	<b>3.4500e-003</b>	<b>7.3200e-003</b>	<b>0.0108</b>	<b>5.2000e-004</b>	<b>7.3200e-003</b>	<b>7.8400e-003</b>	<b>0.0000</b>	<b>27.9009</b>	<b>27.9009</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>28.1265</b>

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.3 Import Dirt (Hauling from Site #3) - 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	0.0314	1.4584	0.1831	2.8000e-003	0.0301	1.4500e-003	0.0315	8.2800e-003	1.3900e-003	9.6700e-003	0.0000	268.9539	268.9539	0.0340	0.0000	269.8034
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	6.6000e-004	5.0000e-004	5.1000e-003	1.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3012	1.3012	4.0000e-005	0.0000	1.3021
<b>Total</b>	<b>0.0321</b>	<b>1.4589</b>	<b>0.1882</b>	<b>2.8100e-003</b>	<b>0.0317</b>	<b>1.4600e-003</b>	<b>0.0331</b>	<b>8.7000e-003</b>	<b>1.4000e-003</b>	<b>0.0101</b>	<b>0.0000</b>	<b>270.2550</b>	<b>270.2550</b>	<b>0.0340</b>	<b>0.0000</b>	<b>271.1055</b>

**4.0 Operational Detail - Mobile**

---

**4.1 Mitigation Measures Mobile**

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	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 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
Refrigerated Warehouse-No	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







Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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>

## Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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**

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
Unmitigated	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970

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	0.9951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3900e-003	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
<b>Total</b>	<b>8.6637</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-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	0.9951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3900e-003	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
<b>Total</b>	<b>8.6637</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-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 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
Refrigerated Warehouse-No Rail	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>

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-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 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
Refrigerated Warehouse-No Rail	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**

---

**8.1 Mitigation Measures Waste**

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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>

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

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

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

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

## 11.0 Vegetation

---

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated)**  
**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<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**

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #4 is expected to be conducted in 21 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #4 is approximately 3.6 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
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
tblConstructionPhase	NumDays	155.00	21.00
tblConstructionPhase	NumDays	155.00	21.00
tblEnergyUse	LightingElect	0.35	0.00

## Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	168,254.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	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	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	3.60
tblTripsAndVMT	HaulingTripLength	20.00	3.60
tblTripsAndVMT	HaulingTripNumber	21,032.00	24,928.00

## Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

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	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
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

**2.0 Emissions Summary**

---



Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-28-2021	9-30-2021	0.2672	0.2363
		Highest	0.2672	0.2363

**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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
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>8.6636</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
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>8.6636</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</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	Rough Grade Site	Grading	9/28/2021	10/26/2021	5	21	
2	Import Dirt (Hauling from Site #4)	Grading	9/28/2021	10/26/2021	5	21	

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

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

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

**Acres of Paving: 49.13**

**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
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #4)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #4)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #4)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #4)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #4)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #4)	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
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	3.60	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #4)	5	13.00	0.00	24,928.00	14.70	6.90	3.60	LD_Mix	HDT_Mix	HHDT

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Rough Grade Site - 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	0.0616	0.6937	0.5004	9.9000e-004		0.0290	0.0290		0.0267	0.0267	0.0000	87.0473	87.0473	0.0282	0.0000	87.7512
<b>Total</b>	<b>0.0616</b>	<b>0.6937</b>	<b>0.5004</b>	<b>9.9000e-004</b>	<b>0.0557</b>	<b>0.0290</b>	<b>0.0847</b>	<b>6.0100e-003</b>	<b>0.0267</b>	<b>0.0327</b>	<b>0.0000</b>	<b>87.0473</b>	<b>87.0473</b>	<b>0.0282</b>	<b>0.0000</b>	<b>87.7512</b>

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.2 Rough Grade Site - 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	1.1100e-003	8.4000e-004	8.6000e-003	2.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.1974	2.1974	6.0000e-005	0.0000	2.1990
<b>Total</b>	<b>1.1100e-003</b>	<b>8.4000e-004</b>	<b>8.6000e-003</b>	<b>2.0000e-005</b>	<b>2.6500e-003</b>	<b>2.0000e-005</b>	<b>2.6700e-003</b>	<b>7.0000e-004</b>	<b>2.0000e-005</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>2.1974</b>	<b>2.1974</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.1990</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	0.0244	0.4769	0.5723	9.9000e-004		0.0199	0.0199		0.0199	0.0199	0.0000	87.0472	87.0472	0.0282	0.0000	87.7511
<b>Total</b>	<b>0.0244</b>	<b>0.4769</b>	<b>0.5723</b>	<b>9.9000e-004</b>	<b>0.0217</b>	<b>0.0199</b>	<b>0.0416</b>	<b>2.3400e-003</b>	<b>0.0199</b>	<b>0.0222</b>	<b>0.0000</b>	<b>87.0472</b>	<b>87.0472</b>	<b>0.0282</b>	<b>0.0000</b>	<b>87.7511</b>

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.2 Rough Grade Site - 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	1.1100e-003	8.4000e-004	8.6000e-003	2.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.1974	2.1974	6.0000e-005	0.0000	2.1990
<b>Total</b>	<b>1.1100e-003</b>	<b>8.4000e-004</b>	<b>8.6000e-003</b>	<b>2.0000e-005</b>	<b>2.6500e-003</b>	<b>2.0000e-005</b>	<b>2.6700e-003</b>	<b>7.0000e-004</b>	<b>2.0000e-005</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>2.1974</b>	<b>2.1974</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.1990</b>

**3.3 Import Dirt (Hauling from Site #4) - 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					9.5100e-003	0.0000	9.5100e-003	1.4400e-003	0.0000	1.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.1832	0.1964	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.6327	26.6327	8.6100e-003	0.0000	26.8481
<b>Total</b>	<b>0.0180</b>	<b>0.1832</b>	<b>0.1964</b>	<b>3.0000e-004</b>	<b>9.5100e-003</b>	<b>9.4100e-003</b>	<b>0.0189</b>	<b>1.4400e-003</b>	<b>8.6600e-003</b>	<b>0.0101</b>	<b>0.0000</b>	<b>26.6327</b>	<b>26.6327</b>	<b>8.6100e-003</b>	<b>0.0000</b>	<b>26.8481</b>

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.3 Import Dirt (Hauling from Site #4) - 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	0.0353	1.6181	0.2068	3.2400e-003	0.0388	1.8000e-003	0.0406	0.0107	1.7200e-003	0.0124	0.0000	312.0302	312.0302	0.0371	0.0000	312.9587
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	6.3000e-004	4.7000e-004	4.8600e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.2420	1.2420	3.0000e-005	0.0000	1.2429
<b>Total</b>	<b>0.0360</b>	<b>1.6186</b>	<b>0.2117</b>	<b>3.2500e-003</b>	<b>0.0403</b>	<b>1.8100e-003</b>	<b>0.0421</b>	<b>0.0111</b>	<b>1.7300e-003</b>	<b>0.0128</b>	<b>0.0000</b>	<b>313.2722</b>	<b>313.2722</b>	<b>0.0372</b>	<b>0.0000</b>	<b>314.2016</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.7100e-003	0.0000	3.7100e-003	5.6000e-004	0.0000	5.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4800e-003	0.1447	0.2308	3.0000e-004		6.9900e-003	6.9900e-003		6.9900e-003	6.9900e-003	0.0000	26.6327	26.6327	8.6100e-003	0.0000	26.8480
<b>Total</b>	<b>7.4800e-003</b>	<b>0.1447</b>	<b>0.2308</b>	<b>3.0000e-004</b>	<b>3.7100e-003</b>	<b>6.9900e-003</b>	<b>0.0107</b>	<b>5.6000e-004</b>	<b>6.9900e-003</b>	<b>7.5500e-003</b>	<b>0.0000</b>	<b>26.6327</b>	<b>26.6327</b>	<b>8.6100e-003</b>	<b>0.0000</b>	<b>26.8480</b>

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.3 Import Dirt (Hauling from Site #4) - 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	0.0353	1.6181	0.2068	3.2400e-003	0.0388	1.8000e-003	0.0406	0.0107	1.7200e-003	0.0124	0.0000	312.0302	312.0302	0.0371	0.0000	312.9587
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	6.3000e-004	4.7000e-004	4.8600e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.2420	1.2420	3.0000e-005	0.0000	1.2429
<b>Total</b>	<b>0.0360</b>	<b>1.6186</b>	<b>0.2117</b>	<b>3.2500e-003</b>	<b>0.0403</b>	<b>1.8100e-003</b>	<b>0.0421</b>	<b>0.0111</b>	<b>1.7300e-003</b>	<b>0.0128</b>	<b>0.0000</b>	<b>313.2722</b>	<b>313.2722</b>	<b>0.0372</b>	<b>0.0000</b>	<b>314.2016</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	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 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
Refrigerated Warehouse-No	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







## Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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>

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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**

---

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
Unmitigated	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970

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	0.9951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3900e-003	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
<b>Total</b>	<b>8.6637</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-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	0.9951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3900e-003	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
<b>Total</b>	<b>8.6637</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-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 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
Refrigerated Warehouse-No Rail	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>

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-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 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
Refrigerated Warehouse-No Rail	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**

---

**8.1 Mitigation Measures Waste**

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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>

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

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

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

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

## 11.0 Vegetation

---

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated)**  
**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<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**

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #5 is expected to be conducted in 11 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #5 is approximately 4.2 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
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
tblConstructionPhase	NumDays	155.00	11.00
tblConstructionPhase	NumDays	155.00	11.00
tblEnergyUse	LightingElect	0.35	0.00

## Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	98,867.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	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	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	4.20
tblTripsAndVMT	HaulingTripLength	20.00	4.20
tblTripsAndVMT	HaulingTripNumber	12,358.00	14,648.00

## Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

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	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
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

**2.0 Emissions Summary**

---



Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
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>8.6636</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
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>8.6636</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</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	Rough Grade Site	Grading	10/27/2021	11/10/2021	5	11	
2	Import Dirt (Hauling from Site #5)	Grading	10/27/2021	11/10/2021	5	11	

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

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

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

**Acres of Paving: 49.13**

**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
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #5)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #5)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #5)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #5)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #5)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #5)	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
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	4.20	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #5)	5	13.00	0.00	14,648.00	14.70	6.90	4.20	LD_Mix	HDT_Mix	HHDT

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Rough Grade Site - 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					0.0292	0.0000	0.0292	3.1500e-003	0.0000	3.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0322	0.3634	0.2621	5.2000e-004		0.0152	0.0152		0.0140	0.0140	0.0000	45.5962	45.5962	0.0148	0.0000	45.9649
<b>Total</b>	<b>0.0322</b>	<b>0.3634</b>	<b>0.2621</b>	<b>5.2000e-004</b>	<b>0.0292</b>	<b>0.0152</b>	<b>0.0444</b>	<b>3.1500e-003</b>	<b>0.0140</b>	<b>0.0171</b>	<b>0.0000</b>	<b>45.5962</b>	<b>45.5962</b>	<b>0.0148</b>	<b>0.0000</b>	<b>45.9649</b>

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.2 Rough Grade Site - 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	5.8000e-004	4.4000e-004	4.5100e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1510	1.1510	3.0000e-005	0.0000	1.1518
<b>Total</b>	<b>5.8000e-004</b>	<b>4.4000e-004</b>	<b>4.5100e-003</b>	<b>1.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.1510</b>	<b>1.1510</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.1518</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					0.0114	0.0000	0.0114	1.2300e-003	0.0000	1.2300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0128	0.2498	0.2998	5.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	45.5962	45.5962	0.0148	0.0000	45.9648
<b>Total</b>	<b>0.0128</b>	<b>0.2498</b>	<b>0.2998</b>	<b>5.2000e-004</b>	<b>0.0114</b>	<b>0.0104</b>	<b>0.0218</b>	<b>1.2300e-003</b>	<b>0.0104</b>	<b>0.0117</b>	<b>0.0000</b>	<b>45.5962</b>	<b>45.5962</b>	<b>0.0148</b>	<b>0.0000</b>	<b>45.9648</b>

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.2 Rough Grade Site - 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	5.8000e-004	4.4000e-004	4.5100e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1510	1.1510	3.0000e-005	0.0000	1.1518
<b>Total</b>	<b>5.8000e-004</b>	<b>4.4000e-004</b>	<b>4.5100e-003</b>	<b>1.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.1510</b>	<b>1.1510</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.1518</b>

**3.3 Import Dirt (Hauling from Site #5) - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.5900e-003	0.0000	5.5900e-003	8.5000e-004	0.0000	8.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4500e-003	0.0960	0.1029	1.6000e-004		4.9300e-003	4.9300e-003		4.5300e-003	4.5300e-003	0.0000	13.9505	13.9505	4.5100e-003	0.0000	14.0633
<b>Total</b>	<b>9.4500e-003</b>	<b>0.0960</b>	<b>0.1029</b>	<b>1.6000e-004</b>	<b>5.5900e-003</b>	<b>4.9300e-003</b>	<b>0.0105</b>	<b>8.5000e-004</b>	<b>4.5300e-003</b>	<b>5.3800e-003</b>	<b>0.0000</b>	<b>13.9505</b>	<b>13.9505</b>	<b>4.5100e-003</b>	<b>0.0000</b>	<b>14.0633</b>

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.3 Import Dirt (Hauling from Site #5) - 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	0.0216	0.9786	0.1271	2.0400e-003	0.0266	1.1900e-003	0.0278	7.3100e-003	1.1400e-003	8.4500e-003	0.0000	196.4828	196.4828	0.0221	0.0000	197.0364
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	3.3000e-004	2.5000e-004	2.5500e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6506	0.6506	2.0000e-005	0.0000	0.6510
<b>Total</b>	<b>0.0220</b>	<b>0.9789</b>	<b>0.1297</b>	<b>2.0500e-003</b>	<b>0.0274</b>	<b>1.2000e-003</b>	<b>0.0286</b>	<b>7.5200e-003</b>	<b>1.1400e-003</b>	<b>8.6600e-003</b>	<b>0.0000</b>	<b>197.1334</b>	<b>197.1334</b>	<b>0.0222</b>	<b>0.0000</b>	<b>197.6874</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1800e-003	0.0000	2.1800e-003	3.3000e-004	0.0000	3.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9200e-003	0.0758	0.1209	1.6000e-004		3.6600e-003	3.6600e-003		3.6600e-003	3.6600e-003	0.0000	13.9505	13.9505	4.5100e-003	0.0000	14.0633
<b>Total</b>	<b>3.9200e-003</b>	<b>0.0758</b>	<b>0.1209</b>	<b>1.6000e-004</b>	<b>2.1800e-003</b>	<b>3.6600e-003</b>	<b>5.8400e-003</b>	<b>3.3000e-004</b>	<b>3.6600e-003</b>	<b>3.9900e-003</b>	<b>0.0000</b>	<b>13.9505</b>	<b>13.9505</b>	<b>4.5100e-003</b>	<b>0.0000</b>	<b>14.0633</b>

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.3 Import Dirt (Hauling from Site #5) - 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	0.0216	0.9786	0.1271	2.0400e-003	0.0266	1.1900e-003	0.0278	7.3100e-003	1.1400e-003	8.4500e-003	0.0000	196.4828	196.4828	0.0221	0.0000	197.0364
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	3.3000e-004	2.5000e-004	2.5500e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6506	0.6506	2.0000e-005	0.0000	0.6510
<b>Total</b>	<b>0.0220</b>	<b>0.9789</b>	<b>0.1297</b>	<b>2.0500e-003</b>	<b>0.0274</b>	<b>1.2000e-003</b>	<b>0.0286</b>	<b>7.5200e-003</b>	<b>1.1400e-003</b>	<b>8.6600e-003</b>	<b>0.0000</b>	<b>197.1334</b>	<b>197.1334</b>	<b>0.0222</b>	<b>0.0000</b>	<b>197.6874</b>

**4.0 Operational Detail - Mobile**

---

**4.1 Mitigation Measures Mobile**

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	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 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
Refrigerated Warehouse-No	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







Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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>

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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**

---

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
Unmitigated	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970

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	0.9951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3900e-003	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
<b>Total</b>	<b>8.6637</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-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	0.9951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3900e-003	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
<b>Total</b>	<b>8.6637</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-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 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
Refrigerated Warehouse-No Rail	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>

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-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 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
Refrigerated Warehouse-No Rail	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**

---

**8.1 Mitigation Measures Waste**

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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>

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

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

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

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

## 11.0 Vegetation

---

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated)**  
**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<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**

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #2 is expected to be conducted in 6 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #2 is approximately 1.5 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
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
tblConstructionPhase	NumDays	155.00	6.00
tblConstructionPhase	NumDays	155.00	6.00
tblEnergyUse	LightingElect	0.35	0.00

## Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	54,490.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	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	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.50
tblTripsAndVMT	HaulingTripLength	20.00	1.50
tblTripsAndVMT	HaulingTripNumber	6,811.00	8,074.00

## Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

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	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
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

**2.0 Emissions Summary**

---



Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
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>8.6636</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
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>8.6636</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</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	Rough Grade Site	Grading	11/11/2021	11/18/2021	5	6	
2	Import Dirt (Hauling from Site #2)	Grading	11/11/2021	11/18/2021	5	6	

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

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

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

**Acres of Paving: 49.13**

**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
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #2)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #2)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #2)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #2)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #2)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #2)	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
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	1.50	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #2)	5	13.00	0.00	8,074.00	14.70	6.90	1.50	LD_Mix	HDT_Mix	HHDT

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Rough Grade Site - 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	0.0176	0.1982	0.1430	2.8000e-004		8.2900e-003	8.2900e-003		7.6300e-003	7.6300e-003	0.0000	24.8707	24.8707	8.0400e-003	0.0000	25.0718
<b>Total</b>	<b>0.0176</b>	<b>0.1982</b>	<b>0.1430</b>	<b>2.8000e-004</b>	<b>0.0159</b>	<b>8.2900e-003</b>	<b>0.0242</b>	<b>1.7200e-003</b>	<b>7.6300e-003</b>	<b>9.3500e-003</b>	<b>0.0000</b>	<b>24.8707</b>	<b>24.8707</b>	<b>8.0400e-003</b>	<b>0.0000</b>	<b>25.0718</b>

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.2 Rough Grade Site - 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	3.2000e-004	2.4000e-004	2.4600e-003	1.0000e-005	7.6000e-004	0.0000	7.6000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6278	0.6278	2.0000e-005	0.0000	0.6283
<b>Total</b>	<b>3.2000e-004</b>	<b>2.4000e-004</b>	<b>2.4600e-003</b>	<b>1.0000e-005</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>7.6000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6278</b>	<b>0.6278</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6283</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					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	6.9700e-003	0.1363	0.1635	2.8000e-004		5.6900e-003	5.6900e-003		5.6900e-003	5.6900e-003	0.0000	24.8706	24.8706	8.0400e-003	0.0000	25.0717
<b>Total</b>	<b>6.9700e-003</b>	<b>0.1363</b>	<b>0.1635</b>	<b>2.8000e-004</b>	<b>6.2000e-003</b>	<b>5.6900e-003</b>	<b>0.0119</b>	<b>6.7000e-004</b>	<b>5.6900e-003</b>	<b>6.3600e-003</b>	<b>0.0000</b>	<b>24.8706</b>	<b>24.8706</b>	<b>8.0400e-003</b>	<b>0.0000</b>	<b>25.0717</b>

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.2 Rough Grade Site - 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	3.2000e-004	2.4000e-004	2.4600e-003	1.0000e-005	7.6000e-004	0.0000	7.6000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6278	0.6278	2.0000e-005	0.0000	0.6283
<b>Total</b>	<b>3.2000e-004</b>	<b>2.4000e-004</b>	<b>2.4600e-003</b>	<b>1.0000e-005</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>7.6000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6278</b>	<b>0.6278</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6283</b>

**3.3 Import Dirt (Hauling from Site #2) - 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					3.0800e-003	0.0000	3.0800e-003	4.7000e-004	0.0000	4.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1500e-003	0.0524	0.0561	9.0000e-005		2.6900e-003	2.6900e-003		2.4700e-003	2.4700e-003	0.0000	7.6094	7.6094	2.4600e-003	0.0000	7.6709
<b>Total</b>	<b>5.1500e-003</b>	<b>0.0524</b>	<b>0.0561</b>	<b>9.0000e-005</b>	<b>3.0800e-003</b>	<b>2.6900e-003</b>	<b>5.7700e-003</b>	<b>4.7000e-004</b>	<b>2.4700e-003</b>	<b>2.9400e-003</b>	<b>0.0000</b>	<b>7.6094</b>	<b>7.6094</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.6709</b>

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.3 Import Dirt (Hauling from Site #2) - 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	9.7800e-003	0.4705	0.0562	7.9000e-004	5.2900e-003	3.2000e-004	5.6100e-003	1.4600e-003	3.1000e-004	1.7700e-003	0.0000	75.7339	75.7339	0.0114	0.0000	76.0193
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	1.4000e-004	1.3900e-003	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.3549	0.3549	1.0000e-005	0.0000	0.3551
<b>Total</b>	<b>9.9600e-003</b>	<b>0.4706</b>	<b>0.0575</b>	<b>7.9000e-004</b>	<b>5.7200e-003</b>	<b>3.2000e-004</b>	<b>6.0400e-003</b>	<b>1.5700e-003</b>	<b>3.1000e-004</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>76.0887</b>	<b>76.0887</b>	<b>0.0114</b>	<b>0.0000</b>	<b>76.3744</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					1.2000e-003	0.0000	1.2000e-003	1.8000e-004	0.0000	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1400e-003	0.0413	0.0659	9.0000e-005		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	7.6093	7.6093	2.4600e-003	0.0000	7.6709
<b>Total</b>	<b>2.1400e-003</b>	<b>0.0413</b>	<b>0.0659</b>	<b>9.0000e-005</b>	<b>1.2000e-003</b>	<b>2.0000e-003</b>	<b>3.2000e-003</b>	<b>1.8000e-004</b>	<b>2.0000e-003</b>	<b>2.1800e-003</b>	<b>0.0000</b>	<b>7.6093</b>	<b>7.6093</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.6709</b>

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.3 Import Dirt (Hauling from Site #2) - 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	9.7800e-003	0.4705	0.0562	7.9000e-004	5.2900e-003	3.2000e-004	5.6100e-003	1.4600e-003	3.1000e-004	1.7700e-003	0.0000	75.7339	75.7339	0.0114	0.0000	76.0193
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	1.4000e-004	1.3900e-003	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.3549	0.3549	1.0000e-005	0.0000	0.3551
<b>Total</b>	<b>9.9600e-003</b>	<b>0.4706</b>	<b>0.0575</b>	<b>7.9000e-004</b>	<b>5.7200e-003</b>	<b>3.2000e-004</b>	<b>6.0400e-003</b>	<b>1.5700e-003</b>	<b>3.1000e-004</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>76.0887</b>	<b>76.0887</b>	<b>0.0114</b>	<b>0.0000</b>	<b>76.3744</b>

**4.0 Operational Detail - Mobile**

---

**4.1 Mitigation Measures Mobile**

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	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 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
Refrigerated Warehouse-No	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







## Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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>

## Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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**

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
Unmitigated	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970

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	0.9951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3900e-003	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
<b>Total</b>	<b>8.6637</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-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	0.9951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3900e-003	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
<b>Total</b>	<b>8.6637</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-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 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
Refrigerated Warehouse-No Rail	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>

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-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 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
Refrigerated Warehouse-No Rail	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**

---

**8.1 Mitigation Measures Waste**

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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>

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

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

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Annual

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

## 11.0 Vegetation

---

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**Majestic Chino Heritage Construction Process (Construction - Mitigated)**  
**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<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**

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

Project Characteristics -

Land Use - Total Project Area is 96.64 acres.

Construction Phase - Construction Schedule adjusted to meet the 2022 OY.

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

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

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment -

Grading - Based on the Equipment List the total acres graded per day is 5.0 acres for grading activities.

Architectural Coating - Rule 1113

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
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

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
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
tblConstructionPhase	NumDays	110.00	190.00
tblConstructionPhase	NumDays	1,550.00	220.00
tblConstructionPhase	NumDays	155.00	60.00
tblConstructionPhase	PhaseEndDate	4/5/2029	12/15/2022
tblConstructionPhase	PhaseEndDate	6/1/2028	12/15/2022
tblConstructionPhase	PhaseEndDate	6/23/2022	2/10/2022
tblConstructionPhase	PhaseEndDate	11/2/2028	12/15/2022
tblConstructionPhase	PhaseStartDate	11/3/2028	3/25/2022
tblConstructionPhase	PhaseStartDate	6/24/2022	2/11/2022
tblConstructionPhase	PhaseStartDate	6/2/2028	7/15/2022
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00

## Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	AcresOfGrading	0.00	300.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
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

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	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
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

**2.0 Emissions Summary**



Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-19-2021	2-18-2022	0.9976	0.9568
2	2-19-2022	5-18-2022	4.2011	4.1120
3	5-19-2022	8-18-2022	5.2313	5.1313
4	8-19-2022	9-30-2022	2.5710	2.5207
		Highest	5.2313	5.1313

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	8.6636	4.3000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0969
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>8.6636</b>	<b>4.3000e-004</b>	<b>0.0468</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0969</b>

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-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	8.6636	4.3000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0969
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>8.6636</b>	<b>4.3000e-004</b>	<b>0.0468</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0969</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**

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/19/2021	2/10/2022	5	60	
2	Building Construction	Building Construction	2/11/2022	12/15/2022	5	220	
3	Architectural Coating	Architectural Coating	3/25/2022	12/15/2022	5	190	
4	Paving	Paving	7/15/2022	12/15/2022	5	110	

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

**Acres of Grading (Grading Phase): 300**

**Acres of Paving: 49.13**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,124,050; Non-Residential Outdoor: 1,041,350; Striped Parking Area: 128,400 (Architectural Coating – sqft)**

**OffRoad Equipment**

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	5	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Other Construction Equipment	2	8.00	172	0.42
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	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**

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
Grading	9	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,774.00	692.00	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	355.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 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					0.1591	0.0000	0.1591	0.0172	0.0000	0.0172	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0366	0.3615	0.4493	6.9000e-004		0.0187	0.0187		0.0172	0.0172	0.0000	60.4612	60.4612	0.0196	0.0000	60.9500
<b>Total</b>	<b>0.0366</b>	<b>0.3615</b>	<b>0.4493</b>	<b>6.9000e-004</b>	<b>0.1591</b>	<b>0.0187</b>	<b>0.1777</b>	<b>0.0172</b>	<b>0.0172</b>	<b>0.0344</b>	<b>0.0000</b>	<b>60.4612</b>	<b>60.4612</b>	<b>0.0196</b>	<b>0.0000</b>	<b>60.9500</b>

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.2 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	1.6400e-003	1.2400e-003	0.0127	4.0000e-005	3.9100e-003	3.0000e-005	3.9300e-003	1.0400e-003	2.0000e-005	1.0600e-003	0.0000	3.2438	3.2438	9.0000e-005	0.0000	3.2461
<b>Total</b>	<b>1.6400e-003</b>	<b>1.2400e-003</b>	<b>0.0127</b>	<b>4.0000e-005</b>	<b>3.9100e-003</b>	<b>3.0000e-005</b>	<b>3.9300e-003</b>	<b>1.0400e-003</b>	<b>2.0000e-005</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>3.2438</b>	<b>3.2438</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.2461</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					0.0620	0.0000	0.0620	6.7000e-003	0.0000	6.7000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.3358	0.5224	6.9000e-004		0.0174	0.0174		0.0174	0.0174	0.0000	60.4611	60.4611	0.0196	0.0000	60.9500
<b>Total</b>	<b>0.0169</b>	<b>0.3358</b>	<b>0.5224</b>	<b>6.9000e-004</b>	<b>0.0620</b>	<b>0.0174</b>	<b>0.0794</b>	<b>6.7000e-003</b>	<b>0.0174</b>	<b>0.0241</b>	<b>0.0000</b>	<b>60.4611</b>	<b>60.4611</b>	<b>0.0196</b>	<b>0.0000</b>	<b>60.9500</b>

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.2 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	1.6400e-003	1.2400e-003	0.0127	4.0000e-005	3.9100e-003	3.0000e-005	3.9300e-003	1.0400e-003	2.0000e-005	1.0600e-003	0.0000	3.2438	3.2438	9.0000e-005	0.0000	3.2461
<b>Total</b>	<b>1.6400e-003</b>	<b>1.2400e-003</b>	<b>0.0127</b>	<b>4.0000e-005</b>	<b>3.9100e-003</b>	<b>3.0000e-005</b>	<b>3.9300e-003</b>	<b>1.0400e-003</b>	<b>2.0000e-005</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>3.2438</b>	<b>3.2438</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.2461</b>

**3.2 Grading - 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					0.1591	0.0000	0.1591	0.0172	0.0000	0.0172	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0304	0.2881	0.4175	6.4000e-004		0.0146	0.0146		0.0135	0.0135	0.0000	56.5527	56.5527	0.0183	0.0000	57.0099
<b>Total</b>	<b>0.0304</b>	<b>0.2881</b>	<b>0.4175</b>	<b>6.4000e-004</b>	<b>0.1591</b>	<b>0.0146</b>	<b>0.1737</b>	<b>0.0172</b>	<b>0.0135</b>	<b>0.0306</b>	<b>0.0000</b>	<b>56.5527</b>	<b>56.5527</b>	<b>0.0183</b>	<b>0.0000</b>	<b>57.0099</b>

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.2 Grading - 2022**

**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	1.4400e-003	1.0400e-003	0.0109	3.0000e-005	3.6600e-003	2.0000e-005	3.6800e-003	9.7000e-004	2.0000e-005	9.9000e-004	0.0000	2.9252	2.9252	8.0000e-005	0.0000	2.9271
<b>Total</b>	<b>1.4400e-003</b>	<b>1.0400e-003</b>	<b>0.0109</b>	<b>3.0000e-005</b>	<b>3.6600e-003</b>	<b>2.0000e-005</b>	<b>3.6800e-003</b>	<b>9.7000e-004</b>	<b>2.0000e-005</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>2.9252</b>	<b>2.9252</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.9271</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					0.0620	0.0000	0.0620	6.7000e-003	0.0000	6.7000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.3141	0.4887	6.4000e-004		0.0163	0.0163		0.0163	0.0163	0.0000	56.5526	56.5526	0.0183	0.0000	57.0099
<b>Total</b>	<b>0.0159</b>	<b>0.3141</b>	<b>0.4887</b>	<b>6.4000e-004</b>	<b>0.0620</b>	<b>0.0163</b>	<b>0.0783</b>	<b>6.7000e-003</b>	<b>0.0163</b>	<b>0.0230</b>	<b>0.0000</b>	<b>56.5526</b>	<b>56.5526</b>	<b>0.0183</b>	<b>0.0000</b>	<b>57.0099</b>

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.2 Grading - 2022**

**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	1.4400e-003	1.0400e-003	0.0109	3.0000e-005	3.6600e-003	2.0000e-005	3.6800e-003	9.7000e-004	2.0000e-005	9.9000e-004	0.0000	2.9252	2.9252	8.0000e-005	0.0000	2.9271
<b>Total</b>	<b>1.4400e-003</b>	<b>1.0400e-003</b>	<b>0.0109</b>	<b>3.0000e-005</b>	<b>3.6600e-003</b>	<b>2.0000e-005</b>	<b>3.6800e-003</b>	<b>9.7000e-004</b>	<b>2.0000e-005</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>2.9252</b>	<b>2.9252</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.9271</b>

**3.3 Building 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	0.1996	1.8444	1.9183	3.1700e-003		0.0951	0.0951		0.0893	0.0893	0.0000	273.1413	273.1413	0.0670	0.0000	274.8154
<b>Total</b>	<b>0.1996</b>	<b>1.8444</b>	<b>1.9183</b>	<b>3.1700e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0893</b>	<b>0.0893</b>	<b>0.0000</b>	<b>273.1413</b>	<b>273.1413</b>	<b>0.0670</b>	<b>0.0000</b>	<b>274.8154</b>

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.3 Building Construction - 2022**

**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	0.1881	7.0137	1.3951	0.0200	0.4799	0.0107	0.4906	0.1385	0.0102	0.1487	0.0000	1,917.4204	1,917.4204	0.1258	0.0000	1,920.5654
Worker	0.8398	0.6103	6.3764	0.0189	2.1396	0.0135	2.1532	0.5683	0.0125	0.5807	0.0000	1,711.6003	1,711.6003	0.0446	0.0000	1,712.7148
<b>Total</b>	<b>1.0279</b>	<b>7.6240</b>	<b>7.7715</b>	<b>0.0390</b>	<b>2.6196</b>	<b>0.0242</b>	<b>2.6438</b>	<b>0.7068</b>	<b>0.0227</b>	<b>0.7295</b>	<b>0.0000</b>	<b>3,629.0207</b>	<b>3,629.0207</b>	<b>0.1704</b>	<b>0.0000</b>	<b>3,633.2801</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	0.0792	1.6741	2.1050	3.1700e-003		0.1058	0.1058		0.1058	0.1058	0.0000	273.1410	273.1410	0.0670	0.0000	274.8151
<b>Total</b>	<b>0.0792</b>	<b>1.6741</b>	<b>2.1050</b>	<b>3.1700e-003</b>		<b>0.1058</b>	<b>0.1058</b>		<b>0.1058</b>	<b>0.1058</b>	<b>0.0000</b>	<b>273.1410</b>	<b>273.1410</b>	<b>0.0670</b>	<b>0.0000</b>	<b>274.8151</b>

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.3 Building Construction - 2022**

**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	0.1881	7.0137	1.3951	0.0200	0.4799	0.0107	0.4906	0.1385	0.0102	0.1487	0.0000	1,917.4204	1,917.4204	0.1258	0.0000	1,920.5654
Worker	0.8398	0.6103	6.3764	0.0189	2.1396	0.0135	2.1532	0.5683	0.0125	0.5807	0.0000	1,711.6003	1,711.6003	0.0446	0.0000	1,712.7148
<b>Total</b>	<b>1.0279</b>	<b>7.6240</b>	<b>7.7715</b>	<b>0.0390</b>	<b>2.6196</b>	<b>0.0242</b>	<b>2.6438</b>	<b>0.7068</b>	<b>0.0227</b>	<b>0.7295</b>	<b>0.0000</b>	<b>3,629.0207</b>	<b>3,629.0207</b>	<b>0.1704</b>	<b>0.0000</b>	<b>3,633.2801</b>

**3.4 Architectural Coating - 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					
Archit. Coating	4.9754					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0259	0.1784	0.2297	3.8000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	32.3412	32.3412	2.1100e-003	0.0000	32.3939
<b>Total</b>	<b>5.0014</b>	<b>0.1784</b>	<b>0.2297</b>	<b>3.8000e-004</b>		<b>0.0104</b>	<b>0.0104</b>		<b>0.0104</b>	<b>0.0104</b>	<b>0.0000</b>	<b>32.3412</b>	<b>32.3412</b>	<b>2.1100e-003</b>	<b>0.0000</b>	<b>32.3939</b>

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.4 Architectural Coating - 2022**

**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	0.1451	0.1055	1.1020	3.2700e-003	0.3698	2.3400e-003	0.3721	0.0982	2.1600e-003	0.1004	0.0000	295.8067	295.8067	7.7000e-003	0.0000	295.9993
<b>Total</b>	<b>0.1451</b>	<b>0.1055</b>	<b>1.1020</b>	<b>3.2700e-003</b>	<b>0.3698</b>	<b>2.3400e-003</b>	<b>0.3721</b>	<b>0.0982</b>	<b>2.1600e-003</b>	<b>0.1004</b>	<b>0.0000</b>	<b>295.8067</b>	<b>295.8067</b>	<b>7.7000e-003</b>	<b>0.0000</b>	<b>295.9993</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	4.9754					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.5300e-003	0.1719	0.2321	3.8000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	32.3412	32.3412	2.1100e-003	0.0000	32.3938
<b>Total</b>	<b>4.9830</b>	<b>0.1719</b>	<b>0.2321</b>	<b>3.8000e-004</b>		<b>0.0120</b>	<b>0.0120</b>		<b>0.0120</b>	<b>0.0120</b>	<b>0.0000</b>	<b>32.3412</b>	<b>32.3412</b>	<b>2.1100e-003</b>	<b>0.0000</b>	<b>32.3938</b>

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.4 Architectural Coating - 2022**

**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	0.1451	0.1055	1.1020	3.2700e-003	0.3698	2.3400e-003	0.3721	0.0982	2.1600e-003	0.1004	0.0000	295.8067	295.8067	7.7000e-003	0.0000	295.9993
<b>Total</b>	<b>0.1451</b>	<b>0.1055</b>	<b>1.1020</b>	<b>3.2700e-003</b>	<b>0.3698</b>	<b>2.3400e-003</b>	<b>0.3721</b>	<b>0.0982</b>	<b>2.1600e-003</b>	<b>0.1004</b>	<b>0.0000</b>	<b>295.8067</b>	<b>295.8067</b>	<b>7.7000e-003</b>	<b>0.0000</b>	<b>295.9993</b>

**3.5 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	0.0607	0.6119	0.8019	1.2500e-003		0.0312	0.0312		0.0287	0.0287	0.0000	110.1516	110.1516	0.0356	0.0000	111.0422
Paving	0.0493					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1099</b>	<b>0.6119</b>	<b>0.8019</b>	<b>1.2500e-003</b>		<b>0.0312</b>	<b>0.0312</b>		<b>0.0287</b>	<b>0.0287</b>	<b>0.0000</b>	<b>110.1516</b>	<b>110.1516</b>	<b>0.0356</b>	<b>0.0000</b>	<b>111.0422</b>

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.5 Paving - 2022**

**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	3.5500e-003	2.5800e-003	0.0270	8.0000e-005	9.0500e-003	6.0000e-005	9.1000e-003	2.4000e-003	5.0000e-005	2.4600e-003	0.0000	7.2362	7.2362	1.9000e-004	0.0000	7.2409
<b>Total</b>	<b>3.5500e-003</b>	<b>2.5800e-003</b>	<b>0.0270</b>	<b>8.0000e-005</b>	<b>9.0500e-003</b>	<b>6.0000e-005</b>	<b>9.1000e-003</b>	<b>2.4000e-003</b>	<b>5.0000e-005</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.2362</b>	<b>7.2362</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>7.2409</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	0.0309	0.6212	0.9513	1.2500e-003		0.0335	0.0335		0.0335	0.0335	0.0000	110.1514	110.1514	0.0356	0.0000	111.0421
Paving	0.0493					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0801</b>	<b>0.6212</b>	<b>0.9513</b>	<b>1.2500e-003</b>		<b>0.0335</b>	<b>0.0335</b>		<b>0.0335</b>	<b>0.0335</b>	<b>0.0000</b>	<b>110.1514</b>	<b>110.1514</b>	<b>0.0356</b>	<b>0.0000</b>	<b>111.0421</b>

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**3.5 Paving - 2022**

**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	3.5500e-003	2.5800e-003	0.0270	8.0000e-005	9.0500e-003	6.0000e-005	9.1000e-003	2.4000e-003	5.0000e-005	2.4600e-003	0.0000	7.2362	7.2362	1.9000e-004	0.0000	7.2409
<b>Total</b>	<b>3.5500e-003</b>	<b>2.5800e-003</b>	<b>0.0270</b>	<b>8.0000e-005</b>	<b>9.0500e-003</b>	<b>6.0000e-005</b>	<b>9.1000e-003</b>	<b>2.4000e-003</b>	<b>5.0000e-005</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.2362</b>	<b>7.2362</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>7.2409</b>

**4.0 Operational Detail - Mobile**

---

**4.1 Mitigation Measures Mobile**

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	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 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
Refrigerated Warehouse-No	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







## Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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>

## Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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**

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-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	8.6636	4.3000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0969
Unmitigated	8.6636	4.3000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0969

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	0.9951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3600e-003	4.3000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0969
<b>Total</b>	<b>8.6636</b>	<b>4.3000e-004</b>	<b>0.0468</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0969</b>

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-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	0.9951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3600e-003	4.3000e-004	0.0468	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0969
<b>Total</b>	<b>8.6636</b>	<b>4.3000e-004</b>	<b>0.0468</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0969</b>

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-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 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
Refrigerated Warehouse-No Rail	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>

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-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 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
Refrigerated Warehouse-No Rail	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**

---

**8.1 Mitigation Measures Waste**

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	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>

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

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

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Annual

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

**11.0 Vegetation**

---

*This page intentionally left blank*

## **APPENDIX 3.2:**

### **CALEEMOD OPERATIONS EMISSIONS MODEL OUTPUTS**

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

**Majestic Chino Heritage (Operations - Passenger Cars)**  
**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<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**

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

Project Characteristics -

Land Use - Total Project Area is 96.94 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Grading -

Vehicle Trips - Trip Rates based on information provided in the TIA.

Water And Wastewater - As per the WSA, the total Indoor Water Demand for the Project is 107,496 gpd and the Outdoor Water Demand is 31,740 gpd.

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 for Passenger Cars were split proportionally between LDA, LDT1, LDT2, and MDV.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	1.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.2670e-003	0.00
tblFleetMix	LHD2	5.2670e-003	0.00
tblFleetMix	MCY	6.0000e-003	0.00
tblFleetMix	MCY	6.0000e-003	0.00

## Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	1.0100e-003	0.00
tblFleetMix	MH	1.0100e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3480e-003	0.00
tblFleetMix	OBUS	1.3480e-003	0.00
tblFleetMix	SBUS	8.1200e-004	0.00
tblFleetMix	SBUS	8.1200e-004	0.00
tblFleetMix	UBUS	1.6070e-003	0.00
tblFleetMix	UBUS	1.6070e-003	0.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00

## Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

tblVehicleTrips	CW_TL	16.60	14.50
tblVehicleTrips	CW_TL	16.60	14.50
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.44
tblVehicleTrips	ST_TR	1.68	1.75
tblVehicleTrips	SU_TR	1.68	1.44
tblVehicleTrips	SU_TR	1.68	1.75
tblVehicleTrips	WD_TR	1.68	1.44
tblVehicleTrips	WD_TR	1.68	1.75
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	39,236,040.00
tblWater	OutdoorWaterUseRate	0.00	11,585,100.00

## 2.0 Emissions Summary

---



Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
Energy	0.0496	0.4510	0.3789	2.7100e-003		0.0343	0.0343		0.0343	0.0343	0.0000	3,437.4265	3,437.4265	0.1311	0.0342	3,450.8852
Mobile	1.0166	2.0563	20.2202	0.0678	7.1069	0.0411	7.1480	1.8867	0.0378	1.9245	0.0000	6,133.0355	6,133.0355	0.1425	0.0000	6,136.5986
Offroad	0.1995	2.2573	1.1300	4.6300e-003		0.0762	0.0762		0.0701	0.0701	0.0000	406.7245	406.7245	0.1315	0.0000	410.0130
Waste						0.0000	0.0000		0.0000	0.0000	397.4035	0.0000	397.4035	23.4859	0.0000	984.5504
Water						0.0000	0.0000		0.0000	0.0000	12.4478	203.7912	216.2390	1.2869	0.0319	257.9269
<b>Total</b>	<b>9.9294</b>	<b>4.7650</b>	<b>21.7760</b>	<b>0.0751</b>	<b>7.1069</b>	<b>0.1517</b>	<b>7.2586</b>	<b>1.8867</b>	<b>0.1424</b>	<b>2.0291</b>	<b>409.8513</b>	<b>10,181.0687</b>	<b>10,590.9200</b>	<b>25.1782</b>	<b>0.0661</b>	<b>11,240.0711</b>

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
Energy	0.0496	0.4510	0.3789	2.7100e-003		0.0343	0.0343		0.0343	0.0343	0.0000	3,437.4265	3,437.4265	0.1311	0.0342	3,450.8852
Mobile	1.0166	2.0563	20.2202	0.0678	7.1069	0.0411	7.1480	1.8867	0.0378	1.9245	0.0000	6,133.0355	6,133.0355	0.1425	0.0000	6,136.5986
Offroad	0.1995	2.2573	1.1300	4.6300e-003		0.0762	0.0762		0.0701	0.0701	0.0000	406.7245	406.7245	0.1315	0.0000	410.0130
Waste						0.0000	0.0000		0.0000	0.0000	397.4035	0.0000	397.4035	23.4859	0.0000	984.5504
Water						0.0000	0.0000		0.0000	0.0000	12.4478	203.7912	216.2390	1.2869	0.0319	257.9269
<b>Total</b>	<b>9.9294</b>	<b>4.7650</b>	<b>21.7760</b>	<b>0.0751</b>	<b>7.1069</b>	<b>0.1517</b>	<b>7.2586</b>	<b>1.8867</b>	<b>0.1424</b>	<b>2.0291</b>	<b>409.8513</b>	<b>10,181.0687</b>	<b>10,590.9200</b>	<b>25.1782</b>	<b>0.0661</b>	<b>11,240.0711</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	Grading	Grading	6/11/2021	6/11/2021	5	1	

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

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

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

**Acres of Paving: 49.13**

**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
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	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
Grading	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

**3.2 Grading - 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	0.0000	0.0000	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**

---

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-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	1.0166	2.0563	20.2202	0.0678	7.1069	0.0411	7.1480	1.8867	0.0378	1.9245	0.0000	6,133.0355	6,133.0355	0.1425	0.0000	6,136.5986
Unmitigated	1.0166	2.0563	20.2202	0.0678	7.1069	0.0411	7.1480	1.8867	0.0378	1.9245	0.0000	6,133.0355	6,133.0355	0.1425	0.0000	6,136.5986

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	144.00	144.00	144.00	760,032	760,032
Unrefrigerated Warehouse-No Rail	3,469.73	3,469.73	3,469.73	18,313,209	18,313,209
<b>Total</b>	<b>3,613.73</b>	<b>3,613.73</b>	<b>3,613.73</b>	<b>19,073,241</b>	<b>19,073,241</b>

**4.3 Trip Type Information**

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-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 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
Refrigerated Warehouse-No	14.50	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	14.50	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 Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.620587	0.041891	0.202723	0.134800	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.620587	0.041891	0.202723	0.134800	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,946.4325	2,946.4325	0.1216	0.0252	2,956.9734
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,946.4325	2,946.4325	0.1216	0.0252	2,956.9734
NaturalGas Mitigated	0.0496	0.4510	0.3789	2.7100e-003		0.0343	0.0343		0.0343	0.0343	0.0000	490.9941	490.9941	9.4100e-003	9.0000e-003	493.9118
NaturalGas Unmitigated	0.0496	0.4510	0.3789	2.7100e-003		0.0343	0.0343		0.0343	0.0343	0.0000	490.9941	490.9941	9.4100e-003	9.0000e-003	493.9118

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 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
Refrigerated Warehouse-No Rail	5.176e+006	0.0279	0.2537	0.2131	1.5200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	276.2111	276.2111	5.2900e-003	5.0600e-003	277.8525
Unrefrigerated Warehouse-No Rail	4.02488e+006	0.0217	0.1973	0.1657	1.1800e-003		0.0150	0.0150		0.0150	0.0150	0.0000	214.7830	214.7830	4.1200e-003	3.9400e-003	216.0593
<b>Total</b>		<b>0.0496</b>	<b>0.4510</b>	<b>0.3789</b>	<b>2.7000e-003</b>		<b>0.0343</b>	<b>0.0343</b>		<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>490.9941</b>	<b>490.9941</b>	<b>9.4100e-003</b>	<b>9.0000e-003</b>	<b>493.9118</b>

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
Refrigerated Warehouse-No Rail	5.176e+006	0.0279	0.2537	0.2131	1.5200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	276.2111	276.2111	5.2900e-003	5.0600e-003	277.8525
Unrefrigerated Warehouse-No Rail	4.02488e+006	0.0217	0.1973	0.1657	1.1800e-003		0.0150	0.0150		0.0150	0.0150	0.0000	214.7830	214.7830	4.1200e-003	3.9400e-003	216.0593
<b>Total</b>		<b>0.0496</b>	<b>0.4510</b>	<b>0.3789</b>	<b>2.7000e-003</b>		<b>0.0343</b>	<b>0.0343</b>		<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>490.9941</b>	<b>490.9941</b>	<b>9.4100e-003</b>	<b>9.0000e-003</b>	<b>493.9118</b>

## Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	573268	182.6555	7.5400e-003	1.5600e-003	183.3089
Refrigerated Warehouse-No Rail	3.995e+006	1,272.8926	0.0526	0.0109	1,277.4464
Unrefrigerated Warehouse-No Rail	4.67917e+006	1,490.8845	0.0616	0.0127	1,496.2181
<b>Total</b>		<b>2,946.4325</b>	<b>0.1216</b>	<b>0.0252</b>	<b>2,956.9734</b>

## Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	573268	182.6555	7.5400e-003	1.5600e-003	183.3089
Refrigerated Warehouse-No Rail	3.995e+006	1,272.8926	0.0526	0.0109	1,277.4464
Unrefrigerated Warehouse-No Rail	4.67917e+006	1,490.8845	0.0616	0.0127	1,496.2181
<b>Total</b>		<b>2,946.4325</b>	<b>0.1216</b>	<b>0.0252</b>	<b>2,956.9734</b>

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

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
Unmitigated	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970

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	0.9951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3900e-003	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
<b>Total</b>	<b>8.6637</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-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	0.9951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3900e-003	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
<b>Total</b>	<b>8.6637</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	216.2390	1.2869	0.0319	257.9269
Unmitigated	216.2390	1.2869	0.0319	257.9269

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
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
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	39.236 / 11.5851	216.2390	1.2869	0.0319	257.9269
<b>Total</b>		<b>216.2390</b>	<b>1.2869</b>	<b>0.0319</b>	<b>257.9269</b>

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-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 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
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	39.236 / 11.5851	216.2390	1.2869	0.0319	257.9269
<b>Total</b>		<b>216.2390</b>	<b>1.2869</b>	<b>0.0319</b>	<b>257.9269</b>

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	397.4035	23.4859	0.0000	984.5504
Unmitigated	397.4035	23.4859	0.0000	984.5504

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	94	19.0812	1.1277	0.0000	47.2727
Unrefrigerated Warehouse-No Rail	1863.74	378.3224	22.3582	0.0000	937.2777
<b>Total</b>		<b>397.4035</b>	<b>23.4859</b>	<b>0.0000</b>	<b>984.5504</b>

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	94	19.0812	1.1277	0.0000	47.2727
Unrefrigerated Warehouse-No Rail	1863.74	378.3224	22.3582	0.0000	937.2777
<b>Total</b>		<b>397.4035</b>	<b>23.4859</b>	<b>0.0000</b>	<b>984.5504</b>

**9.0 Operational Offroad**

---

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	8	4.00	365	200	0.37	CNG

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-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	0.1995	2.2573	1.1300	4.6300e-003		0.0762	0.0762		0.0701	0.0701	0.0000	406.7245	406.7245	0.1315	0.0000	410.0130
<b>Total</b>	<b>0.1995</b>	<b>2.2573</b>	<b>1.1300</b>	<b>4.6300e-003</b>		<b>0.0762</b>	<b>0.0762</b>		<b>0.0701</b>	<b>0.0701</b>	<b>0.0000</b>	<b>406.7245</b>	<b>406.7245</b>	<b>0.1315</b>	<b>0.0000</b>	<b>410.0130</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Annual

**Majestic Chino Heritage (Operations - Trucks)**  
**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<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**

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Annual

Project Characteristics -

Land Use - Total Project Area is 96.94 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Grading -

Vehicle Trips - Trip Rates based on information provided in the TIA. Trip Length based on SBTAM Model.

Water And Wastewater - As per the WSA, the total Indoor Water Demand for the Project is 107,496 gpd and the Outdoor Water Demand is 31,740 gpd.

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results (2014)

Fleet Mix - Operations Run Only.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	1.00
tblFleetMix	HHD	0.06	0.54
tblFleetMix	HHD	0.06	0.79
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.35
tblFleetMix	LHD1	0.02	0.11
tblFleetMix	LHD2	5.2670e-003	0.00
tblFleetMix	LHD2	5.2670e-003	0.00
tblFleetMix	MCY	6.0000e-003	0.00
tblFleetMix	MCY	6.0000e-003	0.00

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Annual

tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0100e-003	0.00
tblFleetMix	MH	1.0100e-003	0.00
tblFleetMix	MHD	0.02	0.11
tblFleetMix	MHD	0.02	0.11
tblFleetMix	OBUS	1.3480e-003	0.00
tblFleetMix	OBUS	1.3480e-003	0.00
tblFleetMix	SBUS	8.1200e-004	0.00
tblFleetMix	SBUS	8.1200e-004	0.00
tblFleetMix	UBUS	1.6070e-003	0.00
tblFleetMix	UBUS	1.6070e-003	0.00
tblGrading	AcresOfGrading	0.00	2.50
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblVehicleTrips	CNW_TTP	41.00	0.00

## Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Annual

tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	31.82
tblVehicleTrips	CW_TL	16.60	26.18
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.68
tblVehicleTrips	ST_TR	1.68	0.38
tblVehicleTrips	SU_TR	1.68	0.68
tblVehicleTrips	SU_TR	1.68	0.38
tblVehicleTrips	WD_TR	1.68	0.68
tblVehicleTrips	WD_TR	1.68	0.38
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	39,236,040.00
tblWater	OutdoorWaterUseRate	0.00	11,585,100.00

## 2.0 Emissions Summary

---



Majestic Chino Heritage (Operations - Trucks) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
Energy	0.0496	0.4510	0.3789	2.7100e-003		0.0343	0.0343		0.0343	0.0343	0.0000	3,437.4265	3,437.4265	0.1311	0.0342	3,450.8852
Mobile	1.0238	35.4747	7.1967	0.1277	3.4552	0.1196	3.5747	0.9625	0.1144	1.0769	0.0000	12,262.5438	12,262.5438	0.5515	0.0000	12,276.3301
Offroad	0.1995	2.2573	1.1300	4.6300e-003		0.0762	0.0762		0.0701	0.0701	0.0000	406.7245	406.7245	0.1315	0.0000	410.0130
Waste						0.0000	0.0000		0.0000	0.0000	397.4035	0.0000	397.4035	23.4859	0.0000	984.5504
Water						0.0000	0.0000		0.0000	0.0000	12.4478	203.7912	216.2390	1.2869	0.0319	257.9269
<b>Total</b>	<b>9.9366</b>	<b>38.1835</b>	<b>8.7525</b>	<b>0.1351</b>	<b>3.4552</b>	<b>0.2302</b>	<b>3.6854</b>	<b>0.9625</b>	<b>0.2189</b>	<b>1.1814</b>	<b>409.8513</b>	<b>16,310.5770</b>	<b>16,720.4283</b>	<b>25.5871</b>	<b>0.0661</b>	<b>17,379.8026</b>

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
Energy	0.0496	0.4510	0.3789	2.7100e-003		0.0343	0.0343		0.0343	0.0343	0.0000	3,437.4265	3,437.4265	0.1311	0.0342	3,450.8852
Mobile	1.0238	35.4747	7.1967	0.1277	3.4552	0.1196	3.5747	0.9625	0.1144	1.0769	0.0000	12,262.5438	12,262.5438	0.5515	0.0000	12,276.3301
Offroad	0.1995	2.2573	1.1300	4.6300e-003		0.0762	0.0762		0.0701	0.0701	0.0000	406.7245	406.7245	0.1315	0.0000	410.0130
Waste						0.0000	0.0000		0.0000	0.0000	397.4035	0.0000	397.4035	23.4859	0.0000	984.5504
Water						0.0000	0.0000		0.0000	0.0000	12.4478	203.7912	216.2390	1.2869	0.0319	257.9269
<b>Total</b>	<b>9.9366</b>	<b>38.1835</b>	<b>8.7525</b>	<b>0.1351</b>	<b>3.4552</b>	<b>0.2302</b>	<b>3.6854</b>	<b>0.9625</b>	<b>0.2189</b>	<b>1.1814</b>	<b>409.8513</b>	<b>16,310.5770</b>	<b>16,720.4283</b>	<b>25.5871</b>	<b>0.0661</b>	<b>17,379.8026</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	Grading	Grading	6/11/2021	6/11/2021	5	1	

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Annual

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

**Acres of Grading (Grading Phase): 2.5**

**Acres of Paving: 49.13**

**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
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	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
Grading	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Annual

**3.2 Grading - 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					1.3300e-003	0.0000	1.3300e-003	1.4000e-004	0.0000	1.4000e-004	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
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>1.3300e-003</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-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>

**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**

---

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-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	1.0238	35.4747	7.1967	0.1277	3.4552	0.1196	3.5747	0.9625	0.1144	1.0769	0.0000	12,262.5438	12,262.5438	0.5515	0.0000	12,276.3301
Unmitigated	1.0238	35.4747	7.1967	0.1277	3.4552	0.1196	3.5747	0.9625	0.1144	1.0769	0.0000	12,262.5438	12,262.5438	0.5515	0.0000	12,276.3301

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	68.00	68.00	68.00	787,609	787,609
Unrefrigerated Warehouse-No Rail	753.43	753.43	753.43	7,179,788	7,179,788
Total	821.43	821.43	821.43	7,967,397	7,967,397

**4.3 Trip Type Information**

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-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 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
Refrigerated Warehouse-No	31.82	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	26.18	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 Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.347000	0.000000	0.110000	0.543000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.106000	0.000000	0.106000	0.788000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,946.4325	2,946.4325	0.1216	0.0252	2,956.9734
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,946.4325	2,946.4325	0.1216	0.0252	2,956.9734
Natural Gas Mitigated	0.0496	0.4510	0.3789	2.7100e-003		0.0343	0.0343		0.0343	0.0343	0.0000	490.9941	490.9941	9.4100e-003	9.0000e-003	493.9118
Natural Gas Unmitigated	0.0496	0.4510	0.3789	2.7100e-003		0.0343	0.0343		0.0343	0.0343	0.0000	490.9941	490.9941	9.4100e-003	9.0000e-003	493.9118

5.2 Energy by Land Use - Natural Gas

Unmitigated

	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 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
Refrigerated Warehouse-No Rail	5.176e+006	0.0279	0.2537	0.2131	1.5200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	276.2111	276.2111	5.2900e-003	5.0600e-003	277.8525
Unrefrigerated Warehouse-No Rail	4.02488e+006	0.0217	0.1973	0.1657	1.1800e-003		0.0150	0.0150		0.0150	0.0150	0.0000	214.7830	214.7830	4.1200e-003	3.9400e-003	216.0593
<b>Total</b>		<b>0.0496</b>	<b>0.4510</b>	<b>0.3789</b>	<b>2.7000e-003</b>		<b>0.0343</b>	<b>0.0343</b>		<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>490.9941</b>	<b>490.9941</b>	<b>9.4100e-003</b>	<b>9.0000e-003</b>	<b>493.9118</b>

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Annual

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
Refrigerated Warehouse-No Rail	5.176e+006	0.0279	0.2537	0.2131	1.5200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	276.2111	276.2111	5.2900e-003	5.0600e-003	277.8525
Unrefrigerated Warehouse-No Rail	4.02488e+006	0.0217	0.1973	0.1657	1.1800e-003		0.0150	0.0150		0.0150	0.0150	0.0000	214.7830	214.7830	4.1200e-003	3.9400e-003	216.0593
<b>Total</b>		<b>0.0496</b>	<b>0.4510</b>	<b>0.3789</b>	<b>2.7000e-003</b>		<b>0.0343</b>	<b>0.0343</b>		<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>490.9941</b>	<b>490.9941</b>	<b>9.4100e-003</b>	<b>9.0000e-003</b>	<b>493.9118</b>

## Majestic Chino Heritage (Operations - Trucks) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	573268	182.6555	7.5400e-003	1.5600e-003	183.3089
Refrigerated Warehouse-No Rail	3.995e+006	1,272.8926	0.0526	0.0109	1,277.4464
Unrefrigerated Warehouse-No Rail	4.67917e+006	1,490.8845	0.0616	0.0127	1,496.2181
<b>Total</b>		<b>2,946.4325</b>	<b>0.1216</b>	<b>0.0252</b>	<b>2,956.9734</b>

## Majestic Chino Heritage (Operations - Trucks) - San Bernardino-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 Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	573268	182.6555	7.5400e-003	1.5600e-003	183.3089
Refrigerated Warehouse-No Rail	3.995e+006	1,272.8926	0.0526	0.0109	1,277.4464
Unrefrigerated Warehouse-No Rail	4.67917e+006	1,490.8845	0.0616	0.0127	1,496.2181
<b>Total</b>		<b>2,946.4325</b>	<b>0.1216</b>	<b>0.0252</b>	<b>2,956.9734</b>

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

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-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	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
Unmitigated	8.6636	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970

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	0.9951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3900e-003	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
<b>Total</b>	<b>8.6637</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-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	0.9951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3900e-003	4.3000e-004	0.0470	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.0909	0.0909	2.4000e-004	0.0000	0.0970
<b>Total</b>	<b>8.6637</b>	<b>4.3000e-004</b>	<b>0.0470</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0909</b>	<b>0.0909</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0970</b>

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	216.2390	1.2869	0.0319	257.9269
Unmitigated	216.2390	1.2869	0.0319	257.9269

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
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
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	39.236 / 11.5851	216.2390	1.2869	0.0319	257.9269
<b>Total</b>		<b>216.2390</b>	<b>1.2869</b>	<b>0.0319</b>	<b>257.9269</b>

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-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 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
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	39.236 / 11.5851	216.2390	1.2869	0.0319	257.9269
<b>Total</b>		<b>216.2390</b>	<b>1.2869</b>	<b>0.0319</b>	<b>257.9269</b>

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	397.4035	23.4859	0.0000	984.5504
Unmitigated	397.4035	23.4859	0.0000	984.5504

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	94	19.0812	1.1277	0.0000	47.2727
Unrefrigerated Warehouse-No Rail	1863.74	378.3224	22.3582	0.0000	937.2777
<b>Total</b>		<b>397.4035</b>	<b>23.4859</b>	<b>0.0000</b>	<b>984.5504</b>

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	94	19.0812	1.1277	0.0000	47.2727
Unrefrigerated Warehouse-No Rail	1863.74	378.3224	22.3582	0.0000	937.2777
<b>Total</b>		<b>397.4035</b>	<b>23.4859</b>	<b>0.0000</b>	<b>984.5504</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	8	4.00	365	200	0.37	CNG

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-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	0.1995	2.2573	1.1300	4.6300e-003		0.0762	0.0762		0.0701	0.0701	0.0000	406.7245	406.7245	0.1315	0.0000	410.0130
<b>Total</b>	<b>0.1995</b>	<b>2.2573</b>	<b>1.1300</b>	<b>4.6300e-003</b>		<b>0.0762</b>	<b>0.0762</b>		<b>0.0701</b>	<b>0.0701</b>	<b>0.0000</b>	<b>406.7245</b>	<b>406.7245</b>	<b>0.1315</b>	<b>0.0000</b>	<b>410.0130</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

*This page intentionally left blank*

**APPENDIX 3.2:**  
**EMFAC2014 MODEL OUTPUTS**

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: San Bernardino

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_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	les per Gall	Vehicle Class
San Bernardino	2021	HHDT	Aggregated	Aggregated	GAS	125.9002107	16717.50413	3.423552402	3423.552402	667783.5564	16717.50413	4209421.238	6.30	HHDT
San Bernardino	2021	HHDT	Aggregated	Aggregated	DSL	24542.92266	4192703.734	664.360004	664360.004		4192703.734			
San Bernardino	2021	LDA	Aggregated	Aggregated	GAS	909207.5181	35199911.37	1171.881911	1171881.911	1181052.556	35199911.37	36939784.65	31.28	LDA
San Bernardino	2021	LDA	Aggregated	Aggregated	DSL	8792.69583	368580.8473	9.17064526	9170.64526		368580.8473			
San Bernardino	2021	LDA	Aggregated	Aggregated	ELEC	25849.69714	1371292.432	0	0		1371292.432			
San Bernardino	2021	LDT1	Aggregated	Aggregated	GAS	73635.44923	2489916.633	99.63468523	99634.68523	99718.79458	2489916.633	2493548.79	25.01	LDT1
San Bernardino	2021	LDT1	Aggregated	Aggregated	DSL	101.6427909	2418.284801	0.084109345	84.10934512		2418.284801			
San Bernardino	2021	LDT1	Aggregated	Aggregated	ELEC	34.48272391	1213.872315	0	0		1213.872315			
San Bernardino	2021	LDT2	Aggregated	Aggregated	GAS	309546.0379	12044583.12	535.7695589	535769.5589	536491.4517	12044583.12	12066830.72	22.49	LDT2
San Bernardino	2021	LDT2	Aggregated	Aggregated	DSL	510.5730144	22247.60261	0.721892821	721.8928209		22247.60261			
San Bernardino	2021	LHDT1	Aggregated	Aggregated	GAS	20120.25047	545735.4092	50.69078775	50690.78775	81054.43819	545735.4092	1157288.691	14.28	LHDT1
San Bernardino	2021	LHDT1	Aggregated	Aggregated	DSL	19532.32163	611553.2814	30.36365044	30363.65044		611553.2814			
San Bernardino	2021	LHDT2	Aggregated	Aggregated	GAS	3392.138812	112705.1992	11.01960873	11019.60873	23852.18706	112705.1992	353790.1324	14.83	LHDT2
San Bernardino	2021	LHDT2	Aggregated	Aggregated	DSL	6802.500203	241084.9332	12.83257832	12832.57832		241084.9332			
San Bernardino	2021	MCY	Aggregated	Aggregated	GAS	45247.5125	403007.7671	10.59030365	10590.30365	10590.30365	403007.7671	403007.7671	38.05	MCY
San Bernardino	2021	MDV	Aggregated	Aggregated	GAS	233176.3118	7886006.132	485.1973934	485197.3934	491039.0326	7886006.132	8023794.329	16.34	MDV
San Bernardino	2021	MDV	Aggregated	Aggregated	DSL	3243.875799	137788.1969	5.841639209	5841.639209		137788.1969			
San Bernardino	2021	MH	Aggregated	Aggregated	GAS	7006.601758	52861.43226	6.711216735	6711.216735	8137.886653	52861.43226	67822.77942	8.33	MH
San Bernardino	2021	MH	Aggregated	Aggregated	DSL	1887.003585	14961.34716	1.426669918	1426.669918		14961.34716			
San Bernardino	2021	MHDT	Aggregated	Aggregated	GAS	2091.977338	121940.1943	15.74990849	15749.90849	136107.7555	121940.1943	1200805.613	8.82	MHDT
San Bernardino	2021	MHDT	Aggregated	Aggregated	DSL	18704.77542	1078865.419	120.357847	120357.847		1078865.419			
San Bernardino	2021	OBUS	Aggregated	Aggregated	GAS	1010.911977	59331.66119	7.447531745	7447.531745	11603.10573	59331.66119	90555.25882	7.80	OBUS
San Bernardino	2021	OBUS	Aggregated	Aggregated	DSL	380.7199066	31223.59763	4.155573988	4155.573988		31223.59763			
San Bernardino	2021	SBUS	Aggregated	Aggregated	GAS	273.1903434	12901.3866	1.105241285	1105.241285	6860.647331	12901.3866	54527.98575	7.95	SBUS
San Bernardino	2021	SBUS	Aggregated	Aggregated	DSL	1096.414947	41626.59915	5.755406046	5755.406046		41626.59915			
San Bernardino	2021	UBUS	Aggregated	Aggregated	GAS	316.0138304	48311.18623	9.569447605	9569.447605	21525.10763	48311.18623	107911.4077	5.01	UBUS
San Bernardino	2021	UBUS	Aggregated	Aggregated	DSL	399.4700238	59600.22146	11.95566003	11955.66003		59600.22146			

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: San Bernardino

Calendar Year: 2022

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	MdYr	Speed	Fuel	Population	VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	les per Gall	Vehicle Class
San Bernardino	2022	HHDT	Aggregated	Aggregated	GAS	125.56249	16825.75022	3.402121801	3402.121801	680381.9613	16825.75022	4344139.088	6.38	HHDT
San Bernardino	2022	HHDT	Aggregated	Aggregated	DSL	25008.28911	4327313.338	676.9798395	676979.8395		4327313.338			
San Bernardino	2022	LDA	Aggregated	Aggregated	GAS	926424.7905	35495838.49	1146.490513	1146490.513	1155878.058	35495838.49	37663109.73	32.58	LDA
San Bernardino	2022	LDA	Aggregated	Aggregated	DSL	9450.455371	388024.9186	9.387544748	9387.544748		388024.9186			
San Bernardino	2022	LDA	Aggregated	Aggregated	ELEC	34468.28443	1779246.316	0	0		1779246.316			
San Bernardino	2022	LDT1	Aggregated	Aggregated	GAS	73194.12291	2475611.321	95.92807243	95928.07243	96006.29842	2475611.321	2479112.878	25.82	LDT1
San Bernardino	2022	LDT1	Aggregated	Aggregated	DSL	96.71141942	2303.121602	0.078225996	78.22599588		2303.121602			
San Bernardino	2022	LDT1	Aggregated	Aggregated	ELEC	34.25664452	1198.435794	0	0		1198.435794			
San Bernardino	2022	LDT2	Aggregated	Aggregated	GAS	317193.9523	12252684.9	526.3101947	526310.1947	527052.2097	12252684.9	12276194.78	23.29	LDT2
San Bernardino	2022	LDT2	Aggregated	Aggregated	DSL	554.1893405	23509.88509	0.742014976	742.0149759		23509.88509			
San Bernardino	2022	LHDT1	Aggregated	Aggregated	GAS	18990.94259	507531.4008	47.0024986	47002.4986	76244.16254	507531.4008	1100700.625	14.44	LHDT1
San Bernardino	2022	LHDT1	Aggregated	Aggregated	DSL	19183.62656	593169.2242	29.24166394	29241.66394		593169.2242			
San Bernardino	2022	LHDT2	Aggregated	Aggregated	GAS	3287.098652	108985.9579	10.59292362	10592.92362	23162.67592	108985.9579	347323.2961	14.99	LHDT2
San Bernardino	2022	LHDT2	Aggregated	Aggregated	DSL	6774.183869	238337.3382	12.56975229	12569.75229		238337.3382			
San Bernardino	2022	MCY	Aggregated	Aggregated	GAS	45945.51695	401971.4623	10.56256477	10562.56477	10562.56477	401971.4623	401971.4623	38.06	MCY
San Bernardino	2022	MDV	Aggregated	Aggregated	GAS	231282.1978	7775471.484	464.2238198	464223.8198	470250.3723	7775471.484	7921603.372	16.85	MDV
San Bernardino	2022	MDV	Aggregated	Aggregated	DSL	3530.888603	146131.888	6.026552515	6026.552515		146131.888			
San Bernardino	2022	MH	Aggregated	Aggregated	GAS	6647.05352	49979.60822	6.319708096	6319.708096	7681.421363	49979.60822	64292.55654	8.37	MH
San Bernardino	2022	MH	Aggregated	Aggregated	DSL	1826.096935	14312.94832	1.361713267	1361.713267		14312.94832			
San Bernardino	2022	MHDT	Aggregated	Aggregated	GAS	2105.828068	123303.7464	15.82027906	15820.27906	140004.516	123303.7464	1240546.312	8.86	MHDT
San Bernardino	2022	MHDT	Aggregated	Aggregated	DSL	19688.69629	1117242.566	124.1842369	124184.2369		1117242.566			
San Bernardino	2022	OBUS	Aggregated	Aggregated	GAS	1034.684212	60139.51125	7.512608055	7512.608055	11778.47414	60139.51125	92390.1604	7.84	OBUS
San Bernardino	2022	OBUS	Aggregated	Aggregated	DSL	396.8020538	32250.64915	4.265866088	4265.866088		32250.64915			
San Bernardino	2022	SBUS	Aggregated	Aggregated	GAS	286.1955999	13441.95626	1.147035502	1147.035502	6882.109878	13441.95626	55019.83882	7.99	SBUS
San Bernardino	2022	SBUS	Aggregated	Aggregated	DSL	1097.358117	41577.88257	5.735074376	5735.074376		41577.88257			
San Bernardino	2022	UBUS	Aggregated	Aggregated	GAS	319.3796366	48288.17873	9.517926095	9517.926095	21096.52894	48288.17873	106548.6994	5.05	UBUS
San Bernardino	2022	UBUS	Aggregated	Aggregated	DSL	394.1324698	58260.52065	11.57860284	11578.60284		58260.52065			

*This page intentionally left blank*