APPENDIX B

AIR QUALITY & GREENHOUSE GAS IMPACT ANALYSIS

AIR QUALITY & GREENHOUSE GAS IMPACT ANALYSIS

FOR

TRINITY CULTIVATION AND MANUFACTURING FACILITY

CITY OF CALEXICO, CA

MAY 2018

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APPENDICES

A. Emissions Modeling

LIST OF COMMON TERMS & ACRONYMS

AAM	Annual Arithmetic Mean
AQAP	Air Quality Attainment Plan
ARB	California Air Resources Board
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CCAA	California Clean Air Act
CCAR	California Climate Action Registry
CEQA	California Environmental Quality Act
CH_4	Methane
CO	Carbon Monoxide
CO_2	Carbon Dioxide
CO_2e	Carbon Dioxide Equivalent
DPM	Diesel-Exhaust Particulate Matter or Diesel-Exhaust PM
FCAA	Federal Clean Air Act
GHG	Greenhouse Gases
HAP	Hazardous Air Pollutant
ICAPCD	Imperial County Air Pollution Control District
IPCC	Intergovernmental Panel on Climate Change
N_2O	Nitrous Oxide
NAAQS	National Ambient Air Quality Standards or National AAQS
NESHAPs	National Emission Standards for HAPs
NO_x	Oxides of Nitrogen
O_3	Ozone
Pb	Lead
PM	Particulate Matter
PM_{10}	Particulate Matter (less than 10 µm)
$PM_{2.5}$	Particulate Matter (less than 2.5 µm)
ppb	Parts per Billion
ppm	Parts per Million
ROG	Reactive Organic Gases
SO_2	Sulfur Dioxide
SSAB	Salton Sea Air Basin
TAC	Toxic Air Contaminant
TSCA	Toxic Substances Control Act
$\mu g/m^3$	Micrograms per cubic meter
U.S. EPA	United State Environmental Protection Agency

INTRODUCTION

This report provides a description of the existing environment in the project area and identifies potential air quality and greenhouse gas (GHG) impacts associated with the proposed Trinity Cultivation & Manufacturing Facility (Project).

PROPOSED PROJECT SUMMARY

The proposed Project is located on the northeast corner of West Cole Boulevard and Sunset Boulevard in Calexico, California. The Project is a cannabis cultivation and manufacturing facility to be located within one existing and three proposed industrial buildings. An existing 33,112 square foot (sf) building at 2421 Enterprise Boulevard will be retro-fitted and three new buildings totaling 131,338 sf will be constructed. A 1,056 sf transportation office will be located north of the existing building at 2421 Enterprise Boulevard on a newly created 10,000 sf parcel. The overall Project would occupy 8.44 acres on six parcels with 167,241 sf and 263 parking spaces. The location of the project is shown in Figure 1. The proposed site plan is included in Figure 2.

AIR QUALITY

EXISTING SETTING

The proposed Project site is located in the City of Calexico, which is in Imperial County and within the Salton Sea Air Basin (SSAB). The SSAB includes the Imperial Valley and the central part of Riverside County, including the Coachella Valley. The Imperial Valley is bordered by the Salton Sea to the north, the Anza-Borrego Desert State Park to the west, the Chocolate Mountains to the northeast, and the U.S./Mexico border to the south.

TOPOGRAPHY, CLIMATE, AND POLLUTANT DISPERSION

The dispersion of air pollution in an area is determined by such natural factors as topography, meteorology, and climate, coupled with atmospheric stability conditions and the presence of inversions. The factors affecting the dispersion of air pollution with respect to the SSAB are discussed below.

Topography

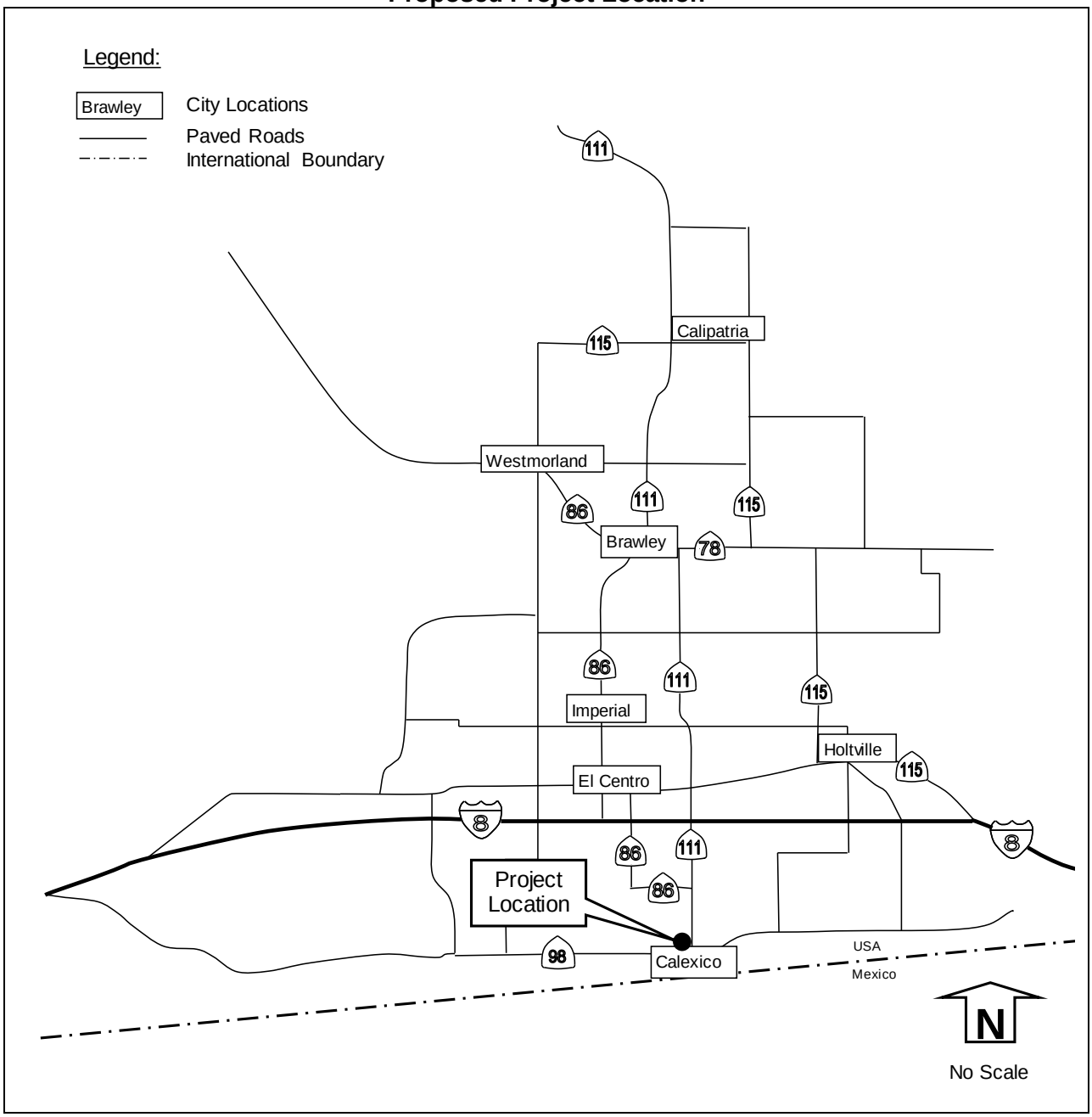
Imperial County extends over 4,482 square miles in the southeastern corner of California. It is bordered on the south by Mexico, on the east by Arizona, on the west by the Coyote and Fish Creek Mountains (which are in San Diego County), and on the north by Riverside County. The Salton Trough generally aligns northwest-southeast through the center of the county and extends into Mexico. The elevation in Imperial County ranges from about 230 feet below sea level in the Salton Sea to the north to more than 2,800 feet on the mountain summits to the east (ICAPCD 2010).

Climate

Winters are mild and dry with daily average temperature ranges between 65 and 75°F (18-24°C). During winter months it is not uncommon to record maximum temperatures of up to 80°F. Summers are extremely hot with daily average temperature ranges between 104 and 115°F (40-46°C). It is not uncommon, during summer months, to record maximum temperatures of 120°F. The annual rainfall is just over 3 inches (7.5 cm) with most of it coming in late summer or midwinter (ICAPCD 2010).

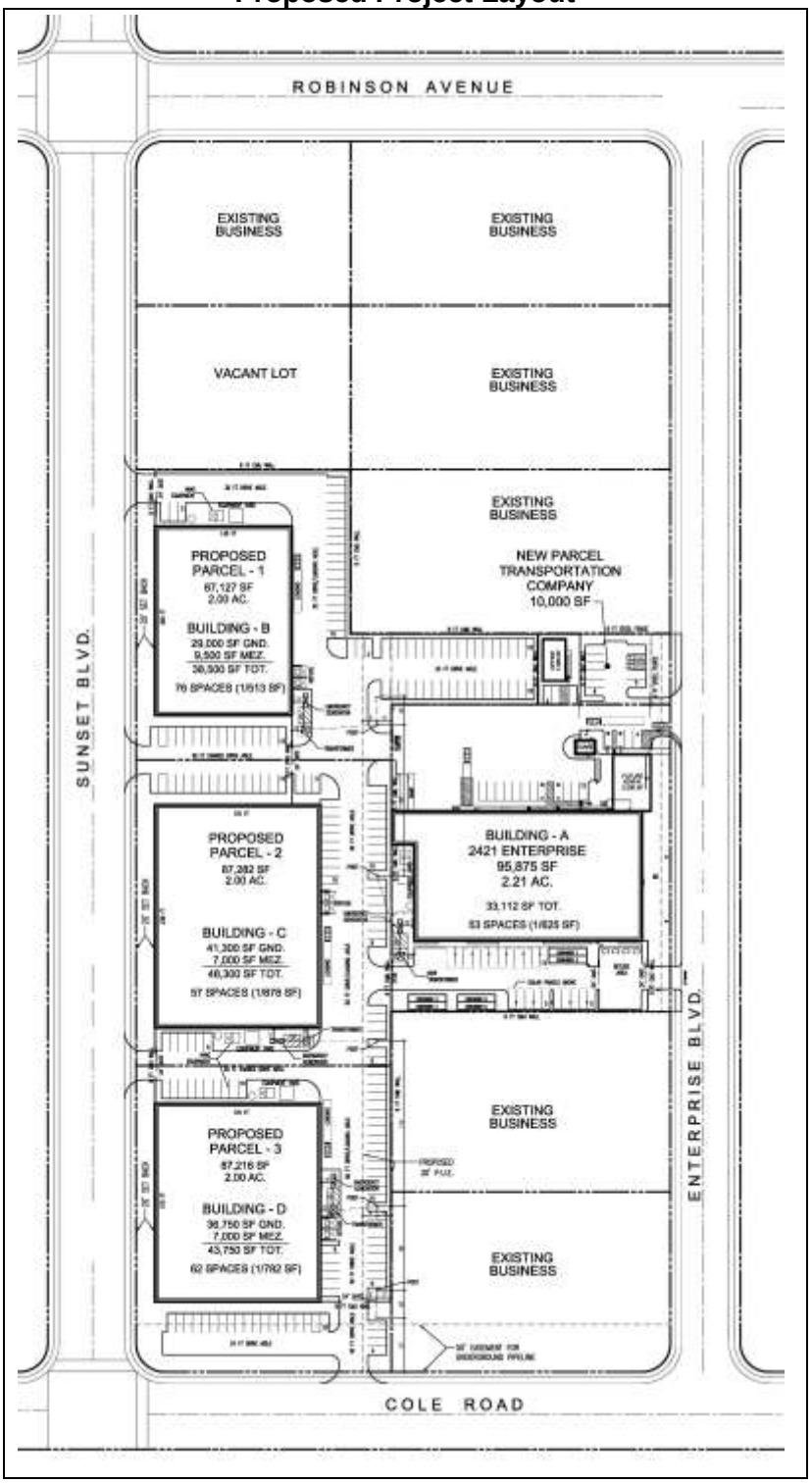
Climatic conditions in the Imperial County are governed by the large-scale sinking and warming of air in the semi-permanent tropical high-pressure center of the Pacific Ocean. The high-pressure ridge blocks out most mid-latitude storms except in the winter months when the high is weakest and farthest south. The coastal mountains prevent the intrusion of any cool, damp air found in California coastal environs. Because

Figure 1
Proposed Project Location



Source: LOS Engineering, Inc. 2018.

Figure 2
Proposed Project Layout



Source: McGee Sharon Architects, Inc. 2018

of the weakened storms and barrier, the Imperial County experiences clear skies, extremely hot summers, mild winters, and little rainfall. The flat terrain of the valley and the strong temperature differentials created by intense solar heating, produce moderate winds and deep thermal convection (ICAPCD 2010).The combination of subsiding air, protective mountains, and distance from the ocean all combine to severely limit precipitation. Rainfall is highly variable with precipitation from a single heavy storm exceeding the entire annual total during a later drought condition. The Imperial County enjoys a year-round climate characterized by a temperate fall, winter and spring and a harsh summer. Humidity often combines with the valley's normal high temperatures to produce a moist, tropical atmosphere that frequently seems hotter than the thermometer suggests. The sun shines, on the average, more in the Imperial County that anywhere else in the United States (ICAPCD 2010).

Humidity

Humidity is low throughout the year, ranging from 28 percent in summer to 52 percent in winter. The large daily oscillation of temperature produces a corresponding large variation in the relative humidity. Nocturnal humidity rises to 50-60 percent, but drops to about 10 percent during the day. Summer weather patterns are dominated by intense heat induced low-pressure areas that form over the interior desert (ICAPCD 2010).

Typical Weather Patterns

The wind direction follows two general patterns. The prevailing winds are from the west and northwest seasonally from fall through spring. These originating prevailing winds are known to be from the Los Angeles area (ICAPCD 2010).

Occasionally Imperial County experiences periods of extremely high wind speeds. Wind speeds can exceed 31 mph occurring most frequently during the months of April and May. However, speeds of less than 6.8 mph account for more than one-half of the observed wind measurements. Wind statistics indicate prevailing winds are from the west-northwest through southwest; a secondary flow maximum from the southeast is also evident (ICAPCD 2010).

Pollutant Dispersion

Air pollutant concentrations are primarily determined by the amount of pollutant emissions in an area and the degree to which these pollutants are dispersed in the atmosphere. The stability of the atmosphere is one of the key factors affecting pollutant dispersion. Atmospheric stability regulates the amount of vertical and horizontal air exchange, or mixing, that can occur within a given air basin. Restricted mixing and low wind speeds are generally associated with a high degree of stability in the atmosphere. These conditions are characteristic of temperature inversions (ICAPCD 2010).

In the atmosphere, air temperatures normally decrease as altitude increases. At varying distances above the earth's surface, however, a reversal of this gradient can occur. This condition, termed an inversion, is simply a warm layer of air above a layer of cooler air, and it has the effect of limiting the vertical dispersion of pollutants. The height of the inversion determines the size of the mixing volume trapped below. Inversion strength or intensity is measured by the thickness of the layer and the difference in temperature between the base and the top of the inversion. The strength of the inversion determines how easily it can be broken by winds or solar heating (ICAPCD 2010).

Imperial County experiences surface inversions almost every day of the year. Due to strong surface heating, these inversions are usually broken allowing pollutants to be more easily dispersed. Weak, surface inversions are caused by radiational cooling of air in contact with the cold surface of the earth at night. In valleys and low-lying areas this condition is intensified by the addition of cold air flowing down slope from the hills and pooling on the valley floor (ICAPCD 2010).

The presence of the Pacific high-pressure cell can cause the air to warm to a temperature higher than the air below. This highly stable atmospheric condition, termed a subsidence inversion can act as a nearly impenetrable lid to the vertical mixing of pollutants. The strength of these inversions makes them difficult to disrupt. Consequently, they can persist for one or more days, causing air stagnation and the buildup of

pollutants. Highest or worst-case ozone levels are often associated with the presence of this type of inversion (ICAPCD 2010).

CRITERIA AIR POLLUTANTS

For the protection of public health and welfare, the Federal Clean Air Act (FCAA) required that the United States Environmental Protection Agency (U.S. EPA) establish National Ambient Air Quality Standards (NAAQS) for various pollutants. These pollutants are referred to as "criteria" pollutants because the U.S. EPA publishes criteria documents to justify the choice of standards. These standards define the maximum amount of an air pollutant that can be present in ambient air without harm to the public's health. An ambient air quality standard is generally specified as a concentration averaged over a specific time period, such as one hour, eight hours, 24 hours, or one year. The different averaging times and concentrations are meant to protect against different exposure effects. The FCAA allows states to adopt additional or more health-protective standards. The air quality regulatory framework and ambient air quality standards are discussed in greater detail later in this report.

Human Health & Welfare Effects

Common air pollutants and associated adverse health and welfare effects are summarized in Table 1. Within the SSAB, the air pollutants of primary concern, with regard to human health, include ozone, particulate matter (PM) and carbon monoxide (CO). As depicted in Table 1, exposure to increased pollutant concentrations of ozone, PM and CO can result in various heart and lung ailments, cardiovascular and nervous system impairment, and death.

Table 1
Common Pollutants & Adverse Effects

Pollutant	Human Health & Welfare Effects
Particulate Matter (PM_{10} & $PM_{2.5}$)	Increased respiratory symptoms, such as irritation of the airways, coughing, or difficulty breathing; aggravated asthma; development of chronic bronchitis; irregular heartbeat; nonfatal heart attacks; and premature death in people with heart or lung disease. Impairs visibility (haze).
Ozone (O_3)	Irritates and causes inflammation of the mucous membranes and lung airways; causes wheezing, coughing and pain when inhaling deeply; decreases lung capacity; aggravates lung and heart problems. Damages plants; reduces crop yield. Damages rubber, some textiles and dyes.
Sulfur Dioxide (SO_2)	Respiratory irritant. Aggravates lung and heart problems. In the presence of moisture and oxygen, sulfur dioxide converts to sulfuric acid which can damage marble, iron and steel; damage crops and natural vegetation. Impairs visibility. Precursor to acid rain.
Carbon Monoxide (CO)	Reduces the ability of blood to deliver oxygen to vital tissues, effecting the cardiovascular and nervous system. Impairs vision, causes dizziness, and can lead to unconsciousness or death.
Nitrogen Dioxide (NO_2)	Respiratory irritant; aggravates lung and heart problems. Precursor to ozone and acid rain. Contributes to global warming, and nutrient overloading which deteriorates water quality. Causes brown discoloration of the atmosphere.
Lead	Anemia, high blood pressure, brain and kidney damage, neurological disorders, cancer, lowered IQ. Affects animals, plants, and aquatic ecosystems.

Source: CAPCOA 2018.

ODORS

Typically odors are generally regarded as an annoyance rather than a health hazard. However, manifestations of a person's reaction to foul odors can range from the psychological (i.e. irritation, anger, or anxiety) to the physiological, including circulatory and respiratory effects, nausea, vomiting, and headache.

The ability to detect odors varies considerably among the population and overall is quite subjective. Some individuals have the ability to smell very minute quantities of specific substances; others may not have the same sensitivity but may have sensitivities to odors of other substances. In addition, people may have different reactions to the same odor and in fact an odor that is offensive to one person may be perfectly acceptable to another (e.g., fast food restaurant). It is important to also note that an unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. This is because of the phenomenon known as odor fatigue, in which a person can become desensitized to almost any odor and recognition only occurs with an alteration in the intensity.

Quality and intensity are two properties present in any odor. The quality of an odor indicates the nature of the smell experience. For instance, if a person describes an odor as flowery or sweet, then the person is describing the quality of the odor. Intensity refers to the strength of the odor. For example, a person may use the word strong to describe the intensity of an odor. Odor intensity depends on the odorant concentration in the air. When an odorous sample is progressively diluted, the odorant concentration decreases. As this occurs, the odor intensity weakens and eventually becomes so low that the detection or recognition of the odor is quite difficult. At some point during dilution, the concentration of the odorant reaches a detection threshold. An odorant concentration below the detection threshold means that the concentration in the air is not detectable by the average human.

Neither the state nor the federal governments have adopted rules or regulations for the control of odor sources. The Imperial County Air Pollution Control District (ICAPCD) does not have an individual rule or regulation that specifically addresses odors; however, odors would be applicable to ICAPCD's *Rule 407, Nuisance*. Any actions related to odors would be based on citizen complaints to local governments and the ICAPCD. The ICAPCD recommends that odor impacts be addressed in a qualitative manner. Such an analysis shall determine if the Project results in excessive nuisance odors, as defined under the California Code of Regulations, Health & Safety Code Section 41700, air quality public nuisance.

TOXIC AIR CONTAMINANTS

Toxic air contaminants (TACs) are air pollutants that may cause or contribute to an increase in mortality or serious illness, or which may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air, but due to their high toxicity, they may pose a threat to public health even at very low concentrations. Because there is no threshold level below which adverse health impacts are not expected to occur, TACs differ from criteria pollutants for which acceptable levels of exposure can be determined and for which state and federal governments have set ambient air quality standards. TACs, therefore, are not considered "criteria pollutants" under either the FCAA or the California Clean Air Act (CCAA), and are thus not subject to National or California ambient air quality standards (NAAQS and CAAQS, respectively). TACs are not considered criteria pollutants in that the federal and California Clean Air Acts do not address them specifically through the setting of NAAQS or CAAQS. Instead, the U.S. EPA and the California Air Resources Board (ARB) regulate Hazardous Air Pollutants (HAPs) and TACs, respectively, through statutes and regulations that generally require the use of the maximum or best available control technology to limit emissions. In conjunction with District rules, these federal and state statutes and regulations establish the regulatory framework for TACs. At the national levels, the U.S. EPA has established National Emission Standards for HAPs (NESHAPs), in accordance with the requirements of the FCAA and subsequent amendments. These are technology-based source-specific regulations that limit allowable emissions of HAPs.

Within California, TACs are regulated primarily through the Tanner Air Toxics Act (AB 1807) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (AB 2588). The Tanner Act sets forth a formal procedure for ARB to designate substances as TACs. This includes research, public participation, and scientific peer

review before ARB designates a substance as a TAC. Existing sources of TACs that are subject to the Air Toxics Hot Spots Information and Assessment Act are required to: (1) prepare a toxic emissions inventory; (2) prepare a risk assessment if emissions are significant; (3) notify the public of significant risk levels; and (4) prepare and implement risk reduction measures.

At the state level, the ARB has authority for the regulation of emissions from motor vehicles, fuels, and consumer products. Most recently, Diesel-exhaust particulate matter (DPM) was added to the ARB list of TACs. DPM is the primary TACs of concern for mobile sources. Of all controlled TACs, emissions of DPM are estimated to be responsible for about 70 percent of the total ambient TAC risk. The ARB has made the reduction of the public's exposure to DPM one of its highest priorities, with an aggressive plan to require cleaner diesel fuel and cleaner diesel engines and vehicles (ARB 2005).

At the local level, air districts have the authority over stationary or industrial sources. All projects that require air quality permits from the ICAPCD are evaluated for TAC emissions. The ICAPCD limits emissions and public exposure to TACs through a number of programs. The ICAPCD prioritizes TAC-emitting stationary sources, based on the quantity and toxicity of the TAC emissions and the proximity of the facilities to sensitive receptors. The ICAPCD requires a comprehensive health risk assessment for facilities that are classified in the significant-risk category, pursuant to AB 2588. No major existing sources of TACs have been identified in the project area.

ASBESTOS

The term "asbestos" describes naturally occurring fibrous minerals found in certain types of rock formations. It is a mineral compound of silicon, oxygen, hydrogen, and various metal cations. When mined and processed, asbestos is typically separated into very thin fibers. When these fibers are present in the air, they are normally invisible to the naked eye. Once airborne, asbestos fibers can cause serious health problems. If inhaled, asbestos fibers can impair normal lung functions, and increase the risk of developing lung cancer, mesothelioma, or asbestosis.

Naturally-occurring asbestos, which was identified as a TAC in 1986 by ARB, is located in many parts of California and is commonly associated with ultramafic rock. The project site is not located in an area of known or suspected naturally-occurring asbestos (DOC 2000).

VALLEY FEVER

Valley fever is an infection caused by the fungus *Coccidioides*. The scientific name for valley fever is "coccidioidomycosis," and it's also sometimes called "desert rheumatism." The term "valley fever" usually refers to *Coccidioides* infection in the lungs, but the infection can spread to other parts of the body in severe cases.

Coccidioides spores circulate in the air after contaminated soil and dust are disturbed by humans, animals, or the weather. The spores are too small to see without a microscope. When people breathe in the spores, they are at risk for developing valley fever. After the spores enter the lungs, the person's body temperature allows the spores to change shape and grow into spherules. When the spherules get large enough, they break open and releases smaller pieces (called endospores) which can then potentially spread within the lungs or to other organs and grow into new spherules. In extremely rare cases, the fungal spores can enter the skin through a cut, wound, or splinter and cause a skin infection.

Symptoms of valley fever may appear between 1 and 3 weeks after exposure. Symptoms commonly include: fatigue, coughing, fever, shortness of breath, headaches, night sweats, muscle aches and joint pain, and rashes on upper body or legs.

Approximately 5 to 10 percent of people who get valley fever will develop serious or long-term problems in their lungs. In an even smaller percent of people (about 1 percent), the infection spreads from the lungs to other parts of the body, such as the central nervous system (brain and spinal cord), skin, or bones and joints. Certain groups of people may be at higher risk for developing the severe forms of valley fever, such as people who have weakened immune systems. The fungus that causes valley fever, *Coccidioides*, can't

spread from the lungs between people or between people and animals. However, in extremely rare instances, a wound infection with *Coccidioides* can spread valley fever to someone else, or the infection can be spread through an organ transplant with an infected organ.

For many people, the symptoms of valley fever will go away within a few months without any treatment. Healthcare providers choose to prescribe antifungal medication for some people to try to reduce the severity of symptoms or prevent the infection from getting worse. Antifungal medication is typically given to people who are at higher risk for developing severe valley fever. The treatment typically occurs over a period of roughly 3 to 6 months. In some instances, longer treatment may be required. If Valley fever develops into meningitis life-long antifungal treatment is typically necessary.

Between the years 1998 to 2012, nearly 130,000 valley fever cases were reported to the Centers for Disease Control (CDC). In states where valley fever is endemic and reportable (Arizona, California, Nevada, New Mexico, and Utah), overall incidence in 2011 was 42.6 cases per 100,000 population and was highest among persons aged 60-79 years.

Scientists continue to study how weather and climate patterns affect the habitat of the fungus that causes valley fever. *Coccidioides* is thought to grow best in soil after heavy rainfall and then disperse into the air most effectively during hot, dry conditions. For example, hot and dry weather conditions have been shown to correlate with an increase in the number of valley fever cases in Arizona and in California. The ways in which climate change may be affecting the number of Valley fever infections, as well as the geographic range of *Coccidioides*, isn't known yet, but is a subject for further research.

AMBIENT AIR QUALITY

Air pollutant concentrations are measured at several monitoring stations in Imperial County. The Calexico-Ethel Street Monitoring Station is the closest representative monitoring site to the proposed project site with sufficient data to meet U.S. EPA and/or ARB criteria for quality assurance. Ambient monitoring data were obtained for the last three years of available measurement data (i.e., 2014 through 2016) and are summarized in Table 2. As depicted, the state ozone, $PM_{2.5}$, and PM_{10}; as well as, federal ozone and $PM_{2.5}$ standards were exceeded on numerous occasions during the past 3 years.

SENSITIVE RECEPTORS

One of the most important reasons for air quality standards is the protection of those members of the population who are most sensitive to the adverse health effects of air pollution, termed "sensitive receptors." The term sensitive receptors refer to specific population groups, as well as the land uses where individuals would reside for long periods. Commonly identified sensitive population groups are children, the elderly, the acutely ill, and the chronically ill. Commonly identified sensitive land uses would include facilities that house or attract children, the elderly, people with illnesses, or others who are especially sensitive to the effects of air pollutants. Residential dwellings, schools, parks, playgrounds, childcare centers, convalescent homes, and hospitals are examples of sensitive land uses.

Land uses in the vicinity of the project site consist predominantly of industrial land uses and vacant land. The nearest sensitive land use is the Small World Montessori School, which is located approximately 850 feet northeast of the Project site, along Portico Boulevard. In addition, residential land uses are located approximately 1,325 feet to the south, along Weakley Street, and approximately 2,700 feet to the west, along Kloke Road.

REGULATORY FRAMEWORK

Air quality within the SSAB is regulated by several jurisdictions including the U.S. EPA, ARB, and the ICAPCD. Each of these jurisdictions develops rules, regulations, and policies to attain the goals or directives imposed upon them through legislation. Although U.S. EPA regulations may not be superseded, both state and local regulations may be more stringent.

Table 2
Summary of Ambient Air Quality Monitoring Data

Pollutant	Monitoring Year[1]		
	2014	2015	2016
Ozone			
Maximum concentration (1-hour/8-hour average)	0.105/0.086	0.106/0.082	0.098/0.077
Number of days state/national 1-hour standard exceeded	5/0	2/0	2/0
Number of days state/national 8-hour standard exceeded	13/11	13/12	9/9
Nitrogen Dioxide (NO_2)			
Maximum concentration (1-hour average)	93.6	83.4	84.5
Annual average	NA	11	11
Number of days state/national standard exceeded	0/0	0/0	0/0
Suspended Particulate Matter ($PM_{2.5}$)			
Maximum concentration (state/national)	51.7	87.1	45.3
Annual Average (national/state)	13.7/14.0	11.5/13	12.5/13
Number of days national standard exceeded (measured/calculated)[2]	9/9.9	3/3.5	4/4.5
Suspended Particulate Matter (PM_{10})			
Maximum concentration	131.8	134.2	66.4
Number of days state standard exceeded (measured/calculated)[2]	19/NA	21/128.2	188/NA
Number of days national standard exceeded (measured/calculated)[2]	0/0	0/0	0/NA

ppm = parts per million by volume, μg/m^3 = micrograms per cubic meter, NA=Not Available

1 Based on ambient concentrations obtained from the Calexico-Ethel Street Monitoring Station.

2. Measured days are those days that an actual measurement was greater than the standard. Calculated days are estimated days that a measurement would have exceeded the standard had measurements been collected every day.

Source: ARB 2018b

FEDERAL

U.S. Environmental Protection Agency

At the federal level, the U.S. EPA has been charged with implementing national air quality programs. The U.S. EPA's air quality mandates are drawn primarily from the Federal Clean Air Act (CAA), which was signed into law in 1970. Congress substantially amended the FCAA in 1977 and again in 1990.

Federal Clean Air Act

The FCAA required the U.S. EPA to establish National Ambient Air Quality Standards (NAAQS), and also set deadlines for their attainment. Two types of NAAQS have been established: primary standards, which protect public health, and secondary standards, which protect public welfare from non-health-related adverse effects, such as visibility restrictions. NAAQS are summarized in Table 3.

The FCAA also required each state to prepare an air quality control plan referred to as a State Implementation Plan (SIP). The FCAA Amendments of 1990 added requirements for states with nonattainment areas to revise their SIPs to incorporate additional control measures to reduce air pollution.

The SIP is periodically modified to reflect the latest emissions inventories, planning documents, and rules and regulations of the air basins as reported by their jurisdictional agencies. The U.S. EPA has responsibility to review all state SIPs to determine conformance with the mandates of the FCAA, and the amendments

Table 3
Summary of Ambient Air Quality Standards & Attainment Designations

Pollutant	Averaging Time	California Standards*		National Standards*	
		Concentration*	Attainment Status	Primary	Attainment Status
Ozone (O_3)	1-hour	0.09 ppm	Non-Attainment	–	Non-Attainment (Moderate)
	8-hour	0.070 ppm		0.075 ppm	
Particulate Matter (PM_{10})	AAM	20 µg/m3	Non-Attainment	–	Non-Attainment (Serious)
	24-hour	50 µg/m3		150 µg/m3	
Fine Particulate Matter ($PM_{2.5}$)	AAM	12 µg/m3	Attainment	15 µg/m3	Non-Attainment
	24-hour	No Standard		35 µg/m3	
Carbon Monoxide (CO)	1-hour	20 ppm	Attainment	35 ppm	Attainment/ Maintenance
	8-hour	9 ppm		9 ppm	
	8-hour (Lake Tahoe)	6 ppm		–	
Nitrogen Dioxide (NO_2)	AAM	0.030 ppm	Attainment	0.053 ppm	Attainment/ Unclassified
	1-hour	0.18 ppm		0.100 ppb	
Sulfur Dioxide (SO_2)	AAM	–	Attainment	0.03 ppm	Attainment/ Unclassified
	24-hour	0.04 ppm		0.14 ppm	
	3-hour	–		--	
	1-hour	0.25 ppm		75 ppb	
Lead	30-day Average	1.5 µg/m3	Attainment	–	No Designation/ Classification
	Calendar Quarter	–		1.5 µg/m3	
	Rolling 3-Month Average	–		0.15 µg/m3	
Sulfates	24-hour	25 µg/m3	Attainment	No Federal Standards	
Hydrogen Sulfide	1-hour	0.03 ppm (42 µg/m3)	Unclassified		
Vinyl Chloride	24-hour	0.01 ppm (26 µg/m3)	Attainment		
Visibility-Reducing Particle Matter	8-hour	Extinction coefficient: 0.23/kilometer-visibility of 10 miles or more (0.07-30 miles or more for Lake Tahoe) due to particles when the relative humidity is less than 70%.	Unclassified		

** For more information on standards visit :http//ww.arb.ca.gov.research/aaqs/aaqs2.pdf*
*** No federal 1-hour standard. Reclassified extreme nonattainment for the federal 8-hour standard May 5, 2010.*
****Secondary Standard*
Source: ARB 2018a; ICAPCD 2018

thereof, and determine if implementation will achieve air quality goals. If the U.S. EPA determines a SIP to be inadequate, a Federal Implementation Plan (FIP) may be prepared for the nonattainment area that imposes additional control measures.

Toxic Substances Control Act

The Toxic Substances Control Act (TSCA) first authorized the U.S. EPA to regulate asbestos in schools and Public and Commercial buildings under Title II of the law, which is also known as the Asbestos Hazard Emergency Response Act (AHERA). AHERA requires Local Education Agencies (LEAs) to inspect their schools for Asbestos Containing Building Materials (ACBM) and prepare management plans to reduce the asbestos hazard. AHERA also established a program for the training and accreditation of individuals performing certain types of asbestos work.

National Emission Standards for Hazardous Air Pollutants

Pursuant to the FCAA of 1970, the U.S. EPA established the National Emission Standards for Hazardous Air Pollutants (NESHAP). These are technology-based source-specific regulations that limit allowable emissions of Hazardous Air Pollutants (HAPs).

STATE

California Air Resources Board

The ARB is the agency responsible for coordination and oversight of state and local air pollution control programs in California and for implementing the California Clean Air Act (CCAA) of 1988. Other ARB duties include monitoring air quality (in conjunction with air monitoring networks maintained by air pollution control districts and air quality management districts, establishing National Ambient Air Quality Standards (NAAQS), which in many cases are more stringent than the California Ambient Air Quality Standards (CAAQS)and setting emissions standards for new motor vehicles. The CAAQS are summarized in Table 3. The emission standards established for motor vehicles differ depending on various factors including the model year, and the type of vehicle, fuel and engine used.

California Clean Air Act

The CCAA requires that all air districts in the state endeavor to achieve and maintain CAAQS for Ozone, CO, SO_2, and NO_2 by the earliest practical date. The CCAA specifies that districts focus particular attention on reducing the emissions from transportation and area-wide emission sources, and the act provides districts with authority to regulate indirect sources. Each district plan is required to either (1) achieve a five percent annual reduction, averaged over consecutive 3-year periods, in district-wide emissions of each non-attainment pollutant or its precursors, or (2) to provide for implementation of all feasible measures to reduce emissions. Any planning effort for air quality attainment would thus need to consider both state and federal planning requirements.

Assembly Bills 1807 & 2588 - Toxic Air Contaminants

Within California, TACs are regulated primarily through AB 1807 (Tanner Air Toxics Act) and AB 2588 (Air Toxics Hot Spots Information and Assessment Act of 1987). The Tanner Air Toxics Act sets forth a formal procedure for ARB to designate substances as TACs. This includes research, public participation, and scientific peer review before ARB designates a substance as a TAC. Existing sources of TACs that are subject to the Air Toxics Hot Spots Information and Assessment Act are required to: (1) prepare a toxic emissions inventory; (2) prepare a risk assessment if emissions are significant; (3) notify the public of significant risk levels; and (4) prepare and implement risk reduction measures.

IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT

The ICAPCD is the agency primarily responsible for ensuring that NAAQS and CAAQS are not exceeded and that air quality conditions are maintained in the SSAB, within which the proposed project is located. Responsibilities of the ICAPCD include, but are not limited to, preparing plans for the attainment of ambient

air quality standards, adopting and enforcing rules and regulations concerning sources of air pollution, issuing permits for stationary sources of air pollution, inspecting stationary sources of air pollution and responding to citizen complaints, monitoring ambient air quality and meteorological conditions, and implementing programs and regulations required by the FCAA and the CCAA.

REGULATORY ATTAINMENT DESIGNATIONS

Under the CCAA, the ARB is required to designate areas of the state as attainment, nonattainment, or unclassified with respect to applicable standards. An "attainment" designation for an area signifies that pollutant concentrations did not violate the applicable standard in that area. A "nonattainment" designation indicates that a pollutant concentration violated the applicable standard at least once, excluding those occasions when a violation was caused by an exceptional event, as defined in the criteria. Depending on the frequency and severity of pollutants exceeding applicable standards, the nonattainment designation can be further classified as serious nonattainment, severe nonattainment, or extreme nonattainment, with extreme nonattainment being the most severe of the classifications. An "unclassified" designation signifies that the data does not support either an attainment or nonattainment designation. The CCAA divides districts into moderate, serious, and severe air pollution categories, with increasingly stringent control requirements mandated for each category.

The U.S. EPA designates areas for ozone, CO, and NO_2 as "does not meet the primary standards," "cannot be classified," or "better than national standards." For SO_2, areas are designated as "does not meet the primary standards," "does not meet the secondary standards," "cannot be classified," or "better than national standards." However, the ARB terminology of attainment, nonattainment, and unclassified is more frequently used. The U.S. EPA uses the same sub-categories for nonattainment status: serious, severe, and extreme. In 1991, U.S. EPA assigned new nonattainment designations to areas that had previously been classified as Group I, II, or III for PM_{10} based on the likelihood that they would violate national PM_{10} standards. All other areas are designated "unclassified."

The state and national attainment status designations pertaining to the SSAB are summarized in Table 3. The SSAB is currently designated as a nonattainment area with respect to the state PM_{10} and ozone standards. The SSAB is designated nonattainment for the national 8-hour ozone, PM_{10}, and $PM_{2.5}$ standards (ARB 2015).

IMPACTS & MITIGATION MEASURES

METHODOLOGY

Short-term Construction

The proposed project will be developed in phases. The initial phase, which would begin in 2018, would include the renovation of Building A and construction of the transportation office, administration office, and guard shack. Construction of Building B and Building C would begin in 2019. Building D would be constructed in 2020.Construction activities associated with each of the major construction phases would occur over an approximate 6-month period.

Construction emissions were quantified using the California Emissions Estimator Model (CalEEMod), version 2016.3.2. Emissions were quantified based on construction schedules identified by the project applicant and default parameters contained in the model for Imperial County. Mobile-source emissions were quantified assuming an average of 95% paved surface travel, per ICAPCD recommendations (Salas 2018). The project site is located in an urbanized area that has already been graded. As a result, construction activities are anticipated to require minimal ground disturbance. The import and export of soil is not anticipated to be required. Localized air quality impacts associated with project construction would be minor and were qualitatively assessed. Modeling assumptions and output files are included in Appendix A of this report.

Long-term Operation

Long-term operational emissions associated with the proposed project were calculated using the CalEEMod, version 2016.3.2. Emissions modeling included mobile sources, area sources, energy use, landscape maintenance, and stationary-source operations. Vehicle trip generation rates were derived from the traffic analysis prepared for this project (LOS 2018). Stationary sources assumed the installation of four diesel-fueled emergency generators. Mobile-source emissions were quantified assuming an average of 95% paved surface travel, per ICAPCD recommendations (Salas 2018). Modeling assumptions and output files are included in Appendix A of this report.

THRESHOLDS OF SIGNIFICANCE

In accordance with CEQA Guidelines, Appendix G, the proposed project would be deemed to have a "potentially significant impact" on air quality if it would:

a) Conflict[s] with or obstruct[s] implementation of the applicable air quality plan.

b) Violate any air quality standard or contribute to an existing or projected air quality violation.

c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors.)

d) Expose the public (especially schools, day care centers, hospitals, retirement homes, convalescence facilities and residences) to substantial pollutant concentrations.

e) Create objectionable odors affecting a substantial number of people.

To assist local jurisdictions in the evaluation of air quality impacts, the ICAPCD has published the *Air Quality Handbook* (ICAPCD 2017). This guidance document includes recommended thresholds of significance to be used for the evaluation of short-term construction, long-term operational, odor, toxic air contaminant, and cumulative air quality impacts. Accordingly, the ICAPCD-recommended thresholds of significance are used to determine whether implementation of the proposed project would result in a significant air quality impact. Projects that exceed these recommended thresholds would be considered to have a potentially significant impact to human health and welfare. The thresholds of significance are summarized, as follows:

- Short-term Construction. Construction-generated emissions exceeding the levels identified in Table 4 would be considered to have a potentially significant air quality impact that could conflict with or obstruct the implementation of the applicable air quality plan (ICAPCD 2017).

Table 4
ICAPCD Thresholds of Significance for Construction Activities

Pollutant	Emissions (lbs/day)
PM_{10}	150
ROG	75
NO_X	100
CO	550
Source: ICAPCD 2017	

- Long-term Operation. Operational emissions exceeding the levels identified in Table 5 would be considered to have a potentially significant air quality impact that could conflict with or obstruct the implementation of the applicable air quality plan (ICAPCD 2017).

Table 5
ICAPCD Thresholds of Significance for Project Operations

Pollutant	Emissions (lbs/day)	
	Tier I Threshold	Tier II Threshold
NO_X & ROG	<137	≥137
PM_{10} & SO_X	<150	≥150
CO & $PM_{2.5}$	<550	≥550

Excludes emissions from stationary sources applicable to ICAPCD permitting requirements. Stationary source emissions are subject to mitigation per ICAPCD Rule 207, New and Modified Stationary Source Review and Rule 201. In accordance with ICAPCD recommendations, emissions associated with stationary sources are quantified in this analysis, but are excluded from comparison to these thresholds. Tier I requires implementation of applicable ICAPCD standard mitigation measures, with the exception of "no impact" determinations. Tier II requires implementation of applicable ICAPCD standard mitigation measures, as well as, applicable discretionary mitigation measures.
Source: ICAPCD 2017

- Local Mobile-Source CO Concentrations—Local mobile source impacts associated with the proposed project would be considered significant if the project contributes to CO concentrations at receptor locations in excess of the CAAQS (i.e., 9.0 ppm for 8 hours or 20 ppm for 1 hour).
- Odor impacts associated with the proposed project would be considered significant if the project has the potential to frequently expose members of the public to objectionable odors.
- Exposure to localized pollutant concentrations would be considered potentially significant if the project would result in exposure of sensitive receptors to concentrations that would exceed applicable thresholds. Exposure to toxic air contaminants (TAC) would be considered significant if the probability of contracting cancer for the Maximally Exposed Individual (i.e., maximum individual risk) would exceed 10 in 1 million or would result in a Hazard Index greater than 1.

PROJECT IMPACTS

Impact AQ-1: *Would the project conflict with or obstruct implementation of the applicable air quality plan?*

As noted in Impact AQ-2, implementation of the proposed project would not result in short-term and long-term increases in emissions that would exceed applicable ICAPCD-recommended thresholds of significance for regional air quality impacts. However, without mitigation, construction and operational emissions could contribute to localized pollutant concentrations that could exceed applicable air quality standards and, therefore, could conflict with or obstruct the implementation of applicable air quality plans. This impact would be considered *potentially significant*.

Implementation of Mitigation Measures AQ-1 and AQ-2 would reduce this impact to a less than significant level. Refer to Impact AQ-2 for additional discussion of air quality impacts and mitigation measures.

Impact AQ-2: *Would the project violate any air quality standard or contribute substantially to an existing or projected air quality violation? and,*

Would result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors).

Short-term Construction

Construction-generated emissions occur for a temporary duration, lasting only as long as construction activities are underway. However, construction-generated emissions have the potential to represent a

significant air quality impact. The construction of the proposed Project would result in the temporary generation of emissions associated with site grading and excavation, motor vehicle exhaust associated with construction equipment and worker trips, as well as the movement of construction equipment on unpaved surfaces. Table 6 provides a summary of the maximum unmitigated daily emissions generated during construction.

Table 6
Short-term Construction-Generated Emissions of Criteria Air Pollutants

Project Phase	Year	Maximum Daily Emissions (lbs/day)(1)				
		ROG	NO_X	CO	PM_{10}	$PM_{2.5}$
Building A Renovation, Guard Shack, Administration & Transportation Buildings	2018	6.2	11.6	8.4	10.3	1.6
Buildings B & C	2019	69.0	45.7	22.8	48.6	13.1
Building D	2020	62.1	18.4	14.7	23.8	4.1
Maximum Daily Emissions:		69.0	45.7	22.8	48.6	13.1
ICAPCD Tier 1 Significance Thresholds:		*75*	*100*	*550*	*150*	*None*
Exceeds Threshold?		No	No	No	No	--

1. Emissions were quantified using CalEEMod, version 2016.3.2. To be conservative, assumes buildings B and C could potentially be under construction simultaneously. Does not include implementation of dust control measures. Totals may not sum due to rounding.

Refer to Appendix A for modeling results and assumptions.

As noted in Table 6, the highest unmitigated daily emissions would total approximately 69 lbs/day of ROG, 46 lbs/day of NO_X, 23 lbs/day of CO, 49 lbs/day of PM_{10}, and 13 lbs/day of $PM_{2.5}$. As shown in the last row of Table 6, uncontrolled emissions would not exceed the ICAPCD's significance thresholds. However, if uncontrolled, emissions of NO_X and fugitive PM could contribute to localized pollutant concentrations that could exceed applicable ambient air quality standards. As a result, construction-generated emissions of NO_X and fugitive PM would be considered to have a *potentially significant* impact.

Mitigation Measures

Mitigation Measure AQ-1: The following mitigation measures shall be implemented to reduce short-term construction emissions:

a. All disturbed areas, including bulk material storage which is not being actively utilized, shall be effectively stabilized and visible emissions shall be limited to no greater than 20% opacity for dust emissions by using water, chemical stabilizers, dust suppressants, tarps or other suitable material such as vegetative ground cover.
b. All on site and off site unpaved roads will be effectively stabilized and visible emissions shall be limited to no greater than 20% opacity for dust emissions by paving, chemical stabilizers, dust suppressants and/or watering.
c. All unpaved traffic areas one (1) acre or more with 75 or more average vehicle trips per day will be effectively stabilized and visible emission shall be limited to no greater than 20% opacity for dust emissions by paving, chemical stabilizers, dust suppressants and/or watering.
d. The transport of bulk materials shall be completely covered unless six inches of freeboard space from the top of the container is maintained with no spillage and loss of Bulk Material. In addition, the cargo compartment of all Haul Trucks is to be cleaned and/or washed at delivery site after removal of Bulk Material.
e. All Track-Out or Carry-Out will be cleaned at the end of each workday or immediately when mud or dirt extends a cumulative distance of 50 linear feet or more onto a paved road within an Urban area.

f. Movement of Bulk Material handling or transfer shall be stabilized prior to handling or at points of transfer with application of sufficient water, chemical stabilizers or by sheltering or enclosing the operation and transfer line.
g. The construction of any new Unpaved Road is prohibited within any area with a population of 500 or more unless the road meets the definition of a Temporary Unpaved Road. Any temporary unpaved road shall be effectively stabilized and visible emissions shall be limited to no greater than 20% opacity for dust emission by paving, chemical stabilizers, dust suppressants and/or watering.
h. Water exposed soil with adequate frequency for continued moist soil.
i. Replace ground cover in disturbed areas as quickly as possible
j. Vehicle speed for all construction vehicles shall not exceed 15 mph on any unpaved surface at the construction site.
j. Use of alternative fueled or catalyst equipped diesel construction equipment, including all off-road and portable diesel-powered equipment, to the extent available locally.
k. Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes as a maximum.
l. Limit, to the extent feasible, the hours of operation of heavy-duty equipment and/or the amount of equipment in use
m. To the extent locally available, use newer heavy-duty construction equipment meeting, at a minimum, U.S. EPA Tier 3 emission standards.
n. Replace fossil fueled equipment with electrically driven equivalents to the extent available locally (provided they are not run via a portable generator set)

Implementation: During Construction

Compliance Enforcement: ICAPCD & City of Calexico, Development Services Department

Significance After Mitigation

The above mitigation measures include ICAPCD-recommended standard mitigation measures which are applicable to all development projects. With, implementation of ICAPCD's standard mitigation measures, maximum daily emissions would be reduced to approximately 69 lbs/day of ROG, 19 lbs/day of NO_X, 24 lbs/day of CO, 25 lbs/day of PM_{10} and 5 lbs/day of $PM_{2.5}$. Following mitigation, short-term construction emission impacts would be considered *less than significant*.

Long-term Operation

Long-term operation of the proposed Project would result in emissions generated by motor vehicle trips, energy use, routine landscape maintenance activities, and use of VOC-containing consumer products. The Project would also include the installation of four emergency diesel-fueled generators. These generators would be subject to ICAPCD permitting requirements and would only be operated in the event of a power outage. Per ICAPCD recommendations, permitted stationary sources are not included in the operational emissions assessment for comparison to ICAPCD-recommended thresholds of significance.

Estimated operational emissions are summarized in Table 7. As indicated, operation of the proposed Project would generate maximum daily emissions of approximately 5 lbs/day of ROG, 7 lbs/day of NO_X, 10 lbs/day of CO, 65 lbs/day of PM_{10} and 7 lbs/day of $PM_{2.5}$. Emissions of SO_X would be negligible. Emissions would be predominantly associated with off-site vehicle travel.

For informational purposes, emissions from on-site emergency generators were calculated and are also identified in Table 7. Assuming an average-daily operational period of 8 hours for testing and maintenance purposes, the emergency generators would generate a total of approximately 24 lbs/day of ROG, 67 lbs/day of NO_X, 61 lbs/day of CO, 4 lbs/day of PM_{10} and 4 lbs/day of $PM_{2.5}$. Emissions of SO_X would be negligible.

Table 7
Long-term Operational Emissions of Criteria Air Pollutants

Source	Emissions (lbs/day)(1)					
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Area	3.6	0.0	0.0	0.0	0.0	0.0
Energy Use	0.0	0.1	0.1	0.0	0.0	0.0
Transportation	0.9	7.1	10.0	0.0	65.3	6.7
Stationary	23.9	66.9	61.1	0.1	3.5	3.5
Total (Excluding Stationary):	4.5	7.2	10.1	0.0	65.3	6.7
ICAPCD Tier 1 Significance Thresholds:	*137*	*137*	*550*	*150*	*150*	*550*
Exceed ICAPCD Thresholds?	*No*	*No*	*No*	*No*	*No*	*No*

1. Emissions were quantified using CalEEMod, version 2016.3.2. Emissions may not sum due to rounding.
2. Stationary sources are subject to permitting requirements and are not included for comparison to ICAPCD-recommended significance thresholds. Assumes and average of 8 hours of operation daily for maintenance/testing purposes.
Refer to Appendix A for modeling results and assumptions.

Although operational emissions would not exceed ICAPCD's Tier 1 significance thresholds, the Project generated operational emissions could contribute, on a cumulative basis, to localized and/or regional air quality impacts. As a result, this impact would be considered *potentially significant*.

Mitigation Measures

Mitigation Measure AQ-2: The following mitigation measures shall be implemented to reduce long-term operational emissions:

a. Provide on-site bicycle lockers and/or racks;
b. Provide on-site eating, refrigeration and food vending facilities to reduce lunchtime trips;
c. Provide shower and locker facilities to encourage employees to bike and/or walk to work;
d. Provide for paving a minimum of 100 feet from the property line for commercial driveways that access County paved roads as per County Standard Commercial Driveway Detail 410B (formerly SW-131A).
e. Incorporate measures which meet mandatory, prescriptive and/or performance measures as required by Title 24.
f. The use of volatile solvents for the manufacturing of cannabis shall be prohibited.

Implementation: During Operation

Compliance Enforcement: ICAPCD & City of Calexico, Development Services Department

Significance After Mitigation

The above mitigation measures include ICAPCD-recommended standard mitigation measures which are applicable to all development projects. With, implementation of ICAPCD's standard mitigation measures, this impact would be considered *less than significant*.

Impact AQ-3: *Would the project expose sensitive receptors to substantial pollutant concentrations?*

Toxic Air Contaminants

Construction of the proposed Project may result in temporary increases in emissions of diesel-exhaust particulate matter (DPM) associated with the use of off-road diesel equipment. Health-related risks associated with diesel-exhaust emissions are primarily associated with long-term exposure and associated

risk of contracting cancer. As such, the calculation of cancer risk associated with exposure of to TACs are typically calculated based on a long-term (e.g., 30-40 year) period of exposure. The use of diesel-powered construction equipment, however, would be temporary and episodic and would occur over a relatively large area. Construction activities would constitute less than approximately 8 percent of the typical 40-year exposure period. In addition, no sensitive land uses have been identified within 500 feet of the Project site. The nearest sensitive land use is the Small World Montessori School, which is located approximately 850 feet northeast of the Project site, along Portico Boulevard. In addition, residential land uses are located approximately 1,325 feet to the south, along Weakley Street, and approximately 2,700 feet to the west, along Kloke Road. Mitigation measures have also been included which would reduce onsite DPM emissions, including idling limitations and the use of newer and alternatively fueled equipment, which would further reduce short-term emissions of DPM. For these reasons and given the highly dispersive characteristics of DPM, exposure to construction-generated DPM would not be anticipated to exceed applicable thresholds (i.e., incremental increase in cancer risk of 10 in one million).

The proposed Project included the installation of four emergency diesel-fueled generators. The generators would be subject to ICAPCD permitting requirements for stationary sources. In accordance with ICAPCD permitting requirements, any potential health-related impacts associated with proposed generators would be mitigated prior to issuance of an operational permit by the ICAPCD With compliance with ICAPCD permitting requirements, potential health-related impacts associated with the proposed generators would be considered less than significant.

Valley Fever

As noted earlier in this report, Valley Fever is an infection caused by the fungus Coccidioides. Coccidioides spores can become airborne after contaminated soil and dust are disturbed. Construction activities would include ground-disturbing activities, which could result in an increased potential for exposure of nearby residents and on-site construction workers to airborne spores. As a result, the potential for increased exposure and contraction of Valley Fever would be considered to have a *potentially significant impact*.

Fugitive Dust

Construction of the proposed Project would include ground-disturbing activities which would be anticipated to result in increased emissions of airborne particulate matter. In addition, the long-term operation of the Project may also result in emissions of fugitive dust associated with vehicle travel on unpaved surface. Increases of uncontrolled fugitive dust may result in increased localized concentrations of PM that could adversely impact occupants of nearby land uses. As a result, localized emissions of airborne particulate matter emitted during construction would be considered *potentially significant*.

Mitigation Measures

Implementation of Mitigation Measures AQ-1 would require implementation of measures for the control of construction-generated emissions. These measures would result in a substantial reduction of construction-generated emissions from off-road equipment, including DPM, as well as, reduction in fugitive dust emitted by ground-disturbing activities. The control of emissions from ground-disturbing activities would also reduce potential for exposure to Valley Fever spores. With mitigation, this impact would be considered *less than significant*.

Impact AQ-4: *Would the project create objectionable odors affecting a substantial number of people?*

Construction of the proposed Project would involve the use of a variety of gasoline or diesel-powered equipment that would emit exhaust fumes. Diesel-exhaust in particular may be considered objectionable by some people. However, construction-generated emissions would occur intermittently throughout the workday and would dissipate rapidly within increasing distance from the source.

Cannabis cultivation and manufacturing facilities can be major sources of odors even though the operations are completely indoors. Depending on the ventilation and filtration system employed, indoor cultivation facilities can be major sources of odors. Cannabis odors are largely associated with a class of

chemicals referred to as terpenes, which are produced by flowering plants. The cannabis plant can produce more than one hundred different terpenes, which differs among the various plant varieties.

The proposed Project has developed an Odor Control Plan. The Plan aims to have zero odorous emissions at the exterior of the facility through the implementation of a two-factor engineering control system. Factor one includes the use of multiple activated carbon filters to continuously dilute and absorb odors at areas where odors would be highest, including flower rooms, vegetative state rooms, curing and drying rooms, trimming and packaging rooms. Factor two includes incorporation of a "SKYPLUME" exhaust system. The "SKYPLUME" exhaust system is a high velocity air disbursement fan system which manages and reduces odors through increased dilution. The odor control plan also incorporates an administrative, monitoring and maintenance procedures to ensure that the Odor Control Plan is effectively implemented. It is also important to note that the proposed facility would be subject to ICAPCD Rule 407 for the control of nuisance emissions. With implementation of the proposed Odor Control Plan and compliance with ICAPCD Rule 407, this impact would be considered *less than significant*.

GREENHOUSE GASES AND CLIMATE CHANGE

This section describes the existing setting related to climate change, including a summary of the regulatory framework. Potential greenhouse gas (GHG) impacts associated with the proposed Project are evaluated. Emissions modeling assumptions and output files are included in Appendix A.

EXISTING SETTING

The earth's climate has been warming for the past century. It is believed that this warming trend is related to the release of certain gases into the atmosphere. GHGs absorb infrared energy that would otherwise escape from the earth. As the infrared energy is absorbed, the air surrounding the earth is heated. An overall warming trend has been recorded since the late 19th century, with the most rapid warming occurring over the past two decades. The 10 warmest years of the last century all occurred within the last 15 years. It appears that the decade of the 1990s was the warmest in human history. GHGs have risen 34 percent since 1990 [NOAA 2014]. Human activities have been attributed to an increase in the atmospheric abundance of GHGs. The following is a brief description of the most commonly recognized GHGs.

GREENHOUSE GASES

To fully understand global climate change, it is important to recognize the naturally occurring "greenhouse effect" and to define the GHGs that contribute to this phenomenon. Various gases in the earth's atmosphere, classified as atmospheric GHGs, play a critical role in determining the earth's surface temperature. Solar radiation enters the earth's atmosphere from space and a portion of the radiation is absorbed by the earth's surface. The earth emits this radiation back toward space, but the properties of the radiation change from high-frequency solar radiation to lower-frequency infrared radiation. GHGs, which are transparent to solar radiation, are effective in absorbing infrared radiation. As a result, this radiation that otherwise would have escaped back into space is now retained, resulting in a warming of the atmosphere. This phenomenon is known as the greenhouse effect. Among the prominent GHGs contributing to the greenhouse effect are carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. Primary GHGs attributed to global climate change, are discussed, as follows:

- **Carbon Dioxide**. Carbon dioxide (CO_2) is a colorless, odorless gas. CO_2 is emitted in a number of ways, both naturally and through human activities. The largest source of CO_2 emissions globally is the combustion of fossil fuels such as coal, oil, and gas in power plants, automobiles, industrial facilities, and other sources. A number of specialized industrial production processes and product uses such as mineral production, metal production, and the use of petroleum-based products can also lead to CO_2 emissions. The atmospheric lifetime of CO_2 is variable because it is so readily exchanged in the atmosphere (U.S. EPA 2018a).

- **Methane**. Methane (CH_4) is a colorless, odorless gas that is not flammable under most circumstances. CH_4 is the major component of natural gas, about 87 percent by volume. It is also formed and released to the atmosphere by biological processes occurring in anaerobic environments. Methane is emitted from a variety of both human-related and natural sources. Human-related sources include fossil fuel production, animal husbandry (enteric fermentation in livestock and manure management), rice cultivation, biomass burning, and waste management. These activities release significant quantities of methane to the atmosphere.

  Natural sources of methane include wetlands, gas hydrates, permafrost, termites, oceans, freshwater bodies, non-wetland soils, and other sources such as wildfires. Methane's atmospheric lifetime is about 12 years (U.S. EPA 2018a).

- **Nitrous Oxide**. Nitrous oxide (N_2O) is a clear, colorless gas with a slightly sweet odor. N_2O is produced by both natural and human-related sources. Primary human-related sources of N_2O are agricultural soil management, animal manure management, sewage treatment, mobile and stationary combustion of fossil fuels, adipic acid production, and nitric acid production. N_2O is also produced

naturally from a wide variety of biological sources in soil and water, particularly microbial action in wet tropical forests. The atmospheric lifetime of N_2O is approximately 114 years (U.S. EPA 2018a).

- **Hydrofluorocarbons.** Hydrofluorocarbons (HFCs) are man-made chemicals, many of which have been developed as alternatives to ozone-depleting substances for industrial, commercial, and consumer products. The only significant emissions of HFCs before 1990 were of the chemical HFC-23, which is generated as a byproduct of the production of HCFC-22 (or Freon 22, used in air conditioning applications). The atmospheric lifetime for HFCs varies from just over a year for HFC-152a to 270 years for HFC-23. Most of the commercially used HFCs have atmospheric lifetimes of less than 15 years (e.g., HFC-134a, which is used in automobile air conditioning and refrigeration, has an atmospheric life of 14 years) (U.S. EPA 2018a).

- **Perfluorocarbons.** Perfluorocarbons (PFCs) are colorless, highly dense, chemically inert, and nontoxic. There are seven PFC gases: perfluoromethane (CF_4), perfluoroethane (C_2F_6), perfluoropropane (C_3F_8), perfluorobutane (C_4F_{10}), perfluorocyclobutane (C_4F_8), perfluoropentane (C_5F_{12}), and perfluorohexane (C_6F1_4). Natural geological emissions have been responsible for the PFCs that have accumulated in the atmosphere in the past; however, the largest current source is aluminum production, which releases CF_4 and C_2F_6 as byproducts. The estimated atmospheric lifetimes for PFCs range from 2,600 to 50,000 years (U.S. EPA 2018a).

- **Nitrogen Trifluoride**. Nitrogen trifluoride (NF_3) is an inorganic, colorless, odorless, toxic, nonflammable gas used as an etchant in microelectronics. Nitrogen trifluoride is predominantly employed in the cleaning of the plasma-enhanced chemical vapor deposition chambers in the production of liquid crystal displays and silicon-based thin film solar cells. It has a global warming potential of 17,200 carbon dioxide equivalents (CO_2e). While NF_3 may have a lower global warming potential than other chemical etchants, it is still a potent GHG. In 2009, NF_3 was listed by California as a high global warming potential GHG to be listed and regulated under Assembly Bill (AB) 32 (Section 38505 Health and Safety Code).

- **Sulfur Hexafluoride**. Sulfur hexafluoride (SF_6) is an inorganic compound that is colorless, odorless, nontoxic, and generally nonflammable. SF_6 is primarily used as an electrical insulator in high voltage equipment. The electric power industry uses roughly 80 percent of all SF_6 produced worldwide. Leaks of SF_6 occur from aging equipment and during equipment maintenance and servicing. SF_6 has an atmospheric life of 3,200 years (U.S. EPA 2018a).

- **Black Carbon**. Black carbon is the most strongly light-absorbing component of particulate matter (PM) emitted from burning fuels such as coal, diesel, and biomass. Black carbon contributes to climate change both directly by absorbing sunlight and indirectly by depositing on snow and by interacting with clouds and affecting cloud formation. Black carbon is considered a short-lived species, which can vary spatially and, consequently, it is very difficult to quantify associated global-warming potentials. The main sources of black carbon in California are wildfires, off-road vehicles (locomotives, marine vessels, tractors, excavators, dozers, etc.), on-road vehicles (cars, trucks, and buses), fireplaces, agricultural waste burning, and prescribed burning (planned burns of forest or wildlands). California has been an international leader in reducing emissions of black carbon, with close to 95 percent control expected by 2020 due to existing programs that target reducing PM from diesel engines and burning activities (ARB 2017).

Each GHG differs in its ability to absorb heat in the atmosphere based on the lifetime, or persistence, of the gas molecule in the atmosphere. Often, estimates of GHG emissions are presented in carbon dioxide equivalents (CO_2e), which weight each gas by its global warming potential (GWP). Expressing GHG emissions in carbon dioxide equivalents takes the contribution of all GHG emissions to the greenhouse effect and converts them to a single unit equivalent to the effect that would occur if only CO_2 were being emitted. Table 8 provides a summary of the GWP for GHG emissions of typical concern with regard to community development projects, based on a 100-year time horizon. As indicated, Methane traps over 25 times more heat per molecule than CO_2, and N_2O absorbs roughly 298 times more heat per molecule than CO_2. Additional GHG with high GWP include Nitrogen trifluoride, Sulfur hexafluoride, Perfluorocarbons, and black carbon.

Table 8
Global Warming Potential for Greenhouse Gases

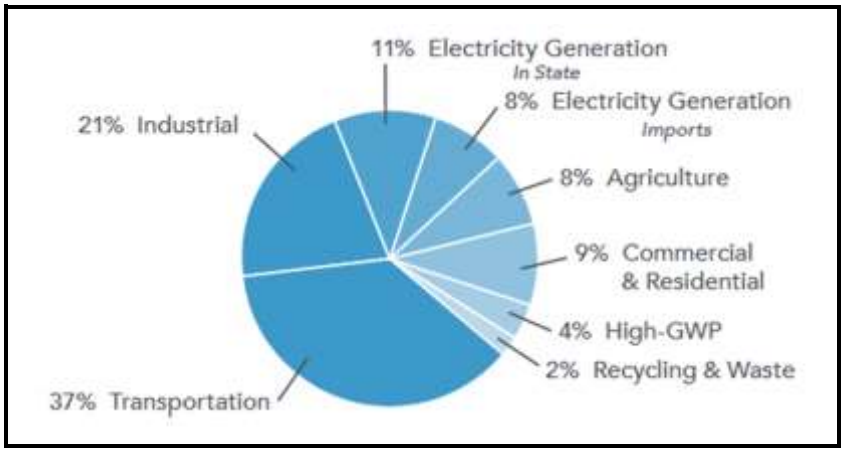
Greenhouse Gas	Global Warming Potential (100-year)
Carbon Dioxide (CO_2)	1
Methane (CH_4)	25
Nitrous Dioxide (N_2O)	298
**Based on IPCC GWP values for 100-year time horizon* *Source: IPCC 2007*	

SOURCES OF GHG EMISSIONS

On a global scale, GHG emissions are predominantly associated with activities related to energy production; changes in land use, such as deforestation and land clearing; industrial sources; agricultural activities; transportation; waste and wastewater generation; and commercial and residential land uses. World-wide, energy production including the burning of coal, natural gas, and oil for electricity and heat is the largest single source of global GHG emissions (U.S. EPA 2018b).

In 2015, GHG emissions within California totaled 440.4 million metric tons (MMT) of CO_2e. GHG emissions, by sector, are summarized in Figure 3. Within California, the transportation sector is the largest contributor, accounting for approximately 37 percent of the total state-wide GHG emissions. Emissions associated with industrial uses are the second largest contributor, totaling roughly 21 percent. Electricity generation totaled roughly 19 percent (ARB 2017).

Figure 3
California GHG Emissions Inventory by Scoping Plan Sector



Source: ARB 2017

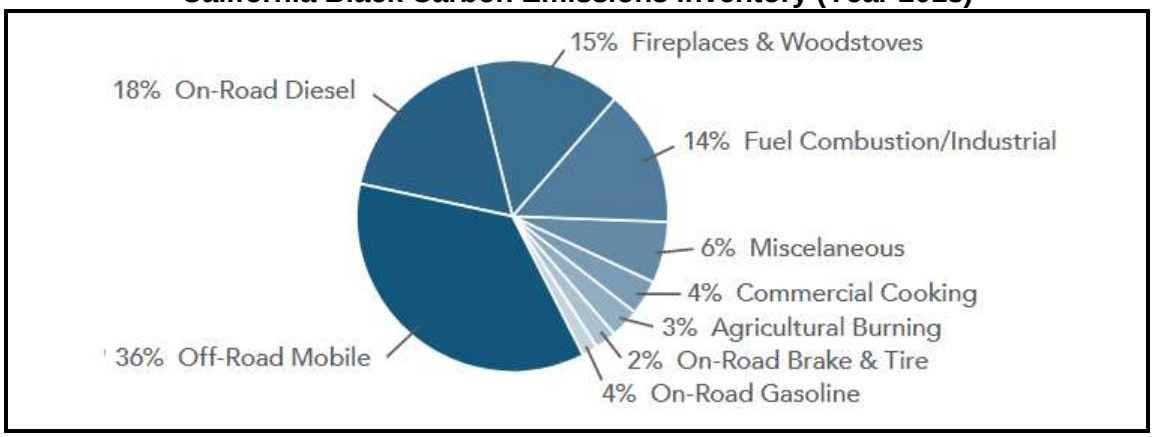
Short-Lived Climate Pollutants

Short-lived climate pollutants (SLCPs), such as black carbon, fluorinated gases, and methane, also have a dramatic effect on climate change. Though short lived, these pollutants create a warming influence on the climate that is many times more potent than that of carbon dioxide.

As part of the ARB's efforts to address SLCPs, the ARB has developed a statewide emission inventory for black carbon. The black carbon inventory will help support implementation of the SLCP Strategy, but is not part of the State's GHG Inventory that tracks progress towards the State's climate targets. The most recent inventory for year 2013 conditions is depicted in Figure 4. As depicted, off-road mobile sources account for a majority of black carbon emissions totaling roughly 36 percent of the inventory. Other major

anthropogenic sources of black carbon include on-road transportation, residential wood burning, fuel combustion, and industrial processes (ARB 2017).

Figure 4
California Black Carbon Emissions Inventory (Year 2013)



Source: ARB 2017

EFFECTS OF GLOBAL CLIMATE CHANGE

There are uncertainties as to exactly what the climate changes will be in various local areas of the earth. There are also uncertainties associated with the magnitude and timing of other consequences of a warmer planet: sea level rise, spread of certain diseases out of their usual geographic range, the effect on agricultural production, water supply, sustainability of ecosystems, increased strength and frequency of storms, extreme heat events, increased air pollution episodes, and the consequence of these effects on the economy.

Within California, climate changes would likely alter the ecological characteristics of many ecosystems throughout the state. Such alterations would likely include increases in surface temperatures and changes in the form, timing, and intensity of precipitation. For instance, historical records are depicting an increasing trend toward earlier snowmelt in the Sierra Nevada. This snow pack is a principal supply of water for the state, providing roughly 50 percent of state's annual runoff. If this trend continues, some areas of the state may experience an increased danger of floods during the winter months and possible exhaustion of the snowpack during spring and summer months. An earlier snowmelt would also impact the State's energy resources. Currently, approximately 20 percent of California's electricity comes from hydropower. An early exhaustion of the Sierra snowpack may force electricity producers to switch to more costly or non-renewable forms of electricity generation during spring and summer months. A changing climate may also impact agricultural crop yields, coastal structures, and biodiversity. As a result, resultant changes in climate will likely have detrimental effects on some of California's largest industries, including agriculture, wine, tourism, skiing, recreational and commercial fishing, and forestry.

REGULATORY FRAMEWORK

FEDERAL

Executive Order 13514

Executive Order 13514 is focused on reducing GHGs internally in federal agency missions, programs and operations, but also direct federal agencies to participate in the Interagency Climate Change Adaptation Task Force, which is engaged in developing a national strategy for adaptation to climate change.

On April 2, 2007, in Massachusetts v. U.S. EPA, 549 U.S. 497 (2007), the Supreme Court found that GHGs are air pollutants covered by the Clean Air Act and that the U.S. EPA has the authority to regulate GHG. The Court held that the U.S. EPA Administrator must determine whether or not emissions of GHGs from new motor vehicles cause or contribute to air pollution which may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision.

On December 7, 2009, the U.S. EPA Administrator signed two distinct findings regarding GHGs under section 202(a) of the Clean Air Act:

- Endangerment Finding: The Administrator found that the current and projected concentrations of the six key well-mixed GHGs (CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6) in the atmosphere threaten the public health and welfare of current and future generations.
- Cause or Contribute Finding: The Administrator found that the combined emissions of these well-mixed GHGs from new motor vehicles and new motor vehicle engines contribute to the GHG pollution which threatens public health and welfare.

Although these findings did not themselves impose any requirements on industry or other entities, this action was a prerequisite to finalizing the U.S. EPA's Proposed Greenhouse Gas Emission Standards for Light-Duty Vehicles, which was published on September 15, 2009. On May 7, 2010 the final Light-Duty Vehicle Greenhouse Gas Emissions Standards and Corporate Average Fuel Economy Standards was published in the Federal Register.

U.S. EPA and the National Highway Traffic Safety Administration (NHTSA) are taking coordinated steps to enable the production of a new generation of clean vehicles with reduced GHG emissions and improved fuel efficiency from on-road vehicles and engines. These next steps include developing the first-ever GHG regulations for heavy-duty engines and vehicles, as well as additional light-duty vehicle GHG regulations. These steps were outlined by President Obama in a Presidential Memorandum on May 21, 2010.

The final combined U.S. EPA and NHTSA standards that make up the first phase of this national program apply to passenger cars, light-duty trucks, and medium-duty passenger vehicles, covering model years 2012 through 2016. The standards require these vehicles to meet an estimated combined average emissions level of 250 grams of CO_2 per mile, (the equivalent to 35.5 miles per gallon if the automobile industry were to meet this CO_2 level solely through fuel economy improvements). Together, these standards will cut GHG emissions by an estimated 960 million metric tons and 1.8 billion barrels of oil over the lifetime of the vehicles sold under the program (model years 2012-2016). On August 28, 2012, U.S. EPA and NHTSA issued their joint rule to extend this national program of coordinated GHG and fuel economy standards to model years 2017 through 2025 passenger vehicles.

STATE

Assembly Bill 1493

AB 1493 (Pavley) of 2002 (Health and Safety Code Sections 42823 and 43018.5) requires the ARB to develop and adopt the nation's first GHG emission standards for automobiles. These standards are also known as Pavley I. The California Legislature declared in AB 1493 that global warming is a matter of increasing concern for public health and the environment. It cites several risks that California faces from climate change, including a reduction in the state's water supply, an increase in air pollution caused by higher temperatures, harm to agriculture, an increase in wildfires, damage to the coastline, and economic losses caused by higher food, water, energy, and insurance prices. The bill also states that technological solutions to reduce GHG emissions would stimulate California's economy and provide jobs. In 2004, the State of California submitted a request for a waiver from federal clean air regulations, as the State is authorized to do under the Clean Air Act, to allow the State to require reduced tailpipe emissions of CO_2. In late 2007, the U.S. EPA denied California's waiver request and declined to promulgate adequate federal regulations limiting GHG emissions. In early 2008, the State brought suit against the U.S. EPA related to this denial.

In January 2009, President Obama instructed the U.S. EPA to reconsider the Bush Administration's denial of California's and 13 other states' requests to implement global warming pollution standards for cars and

trucks. In June 2009, the U.S. EPA granted California's waiver request, enabling the State to enforce its GHG emissions standards for new motor vehicles beginning with the current model year.

Also in 2009, President Obama announced a national policy aimed at both increasing fuel economy and reducing GHG pollution for all new cars and trucks sold in the US. The new standards would cover model years 2012 to 2016 and would raise passenger vehicle fuel economy to a fleet average of 35.5 miles per gallon by 2016. When the national program takes effect, California has committed to allowing automakers who show compliance with the national program to also be deemed in compliance with state requirements. California is committed to further strengthening these standards beginning in 2017 to obtain a 45 percent GHG reduction from the 2020 model year vehicles.

Executive Order No. S-3-05

Executive Order S-3-05 (State of California) proclaims that California is vulnerable to the impacts of climate change. It declares that increased temperatures could reduce the Sierra's snowpack, further exacerbate California's air quality problems, and potentially cause a rise in sea levels. To combat those concerns, the Executive Order established total GHG emission targets. Specifically, emissions are to be reduced to the 2000 level by 2010, to the 1990 level by 2020, and to 80 percent below the 1990 level by 2050.

The Executive Order directed the secretary of the California Environmental Protection Agency (CalEPA) to coordinate a multi-agency effort to reduce GHG emissions to the target levels. The secretary will also submit biannual reports to the governor and state legislature describing (1) progress made toward reaching the emission targets, (2) impacts of global warming on California's resources, and (3) mitigation and adaptation plans to combat these impacts. To comply with the Executive Order, the secretary of CalEPA created a Climate Action Team made up of members from various state agencies and commissions. The Climate Action Team released its first report in March 2006 and continues to release periodic reports on progress. The report proposed to achieve the targets by building on voluntary actions of California businesses, local government and community actions, as well as through state incentive and regulatory programs.

Assembly Bill 32 - California Global Warming Solutions Act of 2006

AB 32 (Health and Safety Code Sections 38500, 38501, 28510, 38530, 38550, 38560, 38561–38565, 38570, 38571, 38574, 38580, 38590, 38592–38599) requires that statewide GHG emissions be reduced to 1990 levels by the year 2020. The gases that are regulated by AB 32 include carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, nitrogen trifluoride, and sulfur hexafluoride. The reduction to 1990 levels will be accomplished through an enforceable statewide cap on GHG emissions that will be phased in starting in 2012. To effectively implement the cap, AB 32 directs ARB to develop and implement regulations to reduce statewide GHG emissions from stationary sources. AB 32 specifies that regulations adopted in response to AB 1493 should be used to address GHG emissions from vehicles.

AB 32 requires that ARB adopt a quantified cap on GHG emissions representing 1990 emissions levels and disclose how it arrives at the cap, institute a schedule to meet the emissions cap, and develop tracking, reporting, and enforcement mechanisms to ensure that the state achieves reductions in GHG emissions necessary to meet the cap. AB 32 also includes guidance to institute emissions reductions in an economically efficient manner and conditions to ensure that businesses and consumers are not unfairly affected by the reductions (ARB 2018c).

Climate Change Scoping Plan

In October 2008, ARB published its *Climate Change Proposed Scoping Plan*, which is the State's plan to achieve GHG reductions in California required by AB 32. This initial Scoping Plan contained the main strategies to be implemented in order to achieve the target emission levels identified in AB 32. The Scoping Plan included ARB-recommended GHG reductions for each emissions sector of the state's GHG inventory. The largest proposed GHG reduction recommendations were associated with improving emissions standards for light-duty vehicles, implementation of the Low Carbon Fuel Standard program, energy efficiency measures in buildings and appliances and the widespread development of combined heat and power systems, and a renewable portfolio standard for electricity production.

The Scoping Plan states that land use planning and urban growth decisions will play important roles in the state's GHG reductions because local governments have primary authority to plan, zone, approve, and permit how land is developed to accommodate population growth and the changing needs of their jurisdictions. ARB further acknowledges that decisions on how land is used will have large impacts on the GHG emissions that will result from the transportation, housing, industry, forestry, water, agriculture, electricity, and natural gas emissions sectors. With regard to land use planning, the Scoping Plan expects approximately 5.0 $MMTCO_2e$ will be achieved in association with implementation of Senate Bill 375, which is discussed further below.

The initial Scoping Plan was first approved by ARB on December 11, 2008 and is updated every five years. The first update of the Scoping Plan was approved by the ARB on May 22, 2014, which looked past 2020 to set mid-term goals (2030-2035) on the road to reaching the 2050 goals., The most recent update released by ARB is the *2017 Climate Change Scoping Plan*, which was released In November 2017. The *2017 Climate Change Scoping Plan* incorporates strategies for achieving the 2030 GHG-reduction target established in SB 32 and EO B-30-15.

Senate Bill 1078 and Governor's Order S-14-08 (California Renewables Portfolio Standards)

Senate Bill 1078 (Public Utilities Code Sections 387, 390.1, 399.25 and Article 16) addresses electricity supply and required that retail sellers of electricity, including investor-owned utilities and community choice aggregators, provide a minimum 20 percent of their supply from renewable sources by 2017. This Senate Bill will affect statewide GHG emissions associated with electricity generation. In 2008, Governor Schwarzenegger signed Executive Order S-14-08, which set the Renewables Portfolio Standard target to 33 percent by 2020. It directed state government agencies and retail sellers of electricity to take all appropriate actions to implement this target. Executive Order S-14-08 was later superseded by Executive Order S-21-09 on September 15, 2009. Executive Order S-21-09 directed the ARB to adopt regulations requiring 33 percent of electricity sold in the State come from renewable energy by 2020. This Executive Order was superseded by statute SB X1-2 in 2011, which obligates all California electricity providers, including investor-owned utilities and publicly owned utilities, to obtain at least 33 percent of their energy from renewable electrical generation facilities by 2020.

ARB is required by current law, AB 32 of 2006, to regulate sources of GHGs to meet a state goal of reducing GHG emissions to 1990 levels by 2020 and an 80 percent reduction of 1990 levels by 2050. The CEC and CPUC serve in advisory roles to help ARB develop the regulations to administer the 33 percent by 2020 requirement. ARB is also authorized to increase the target and accelerate and expand the time frame.

Mandatory Reporting of GHG Emissions

Reporting of GHGs by major sources is required by the California Global Warming Solutions Act (AB 32, 2006). Revisions to the existing ARB mandatory GHG reporting regulation were considered at the board hearing on December 16, 2010. The revised regulation was approved by the California Office of Administrative Law and became effective on January 1, 2012. The revised regulation affects industrial facilities, suppliers of transportation fuels, natural gas, natural gas liquids, liquefied petroleum gas, and carbon dioxide, operators of petroleum and natural gas systems, and electricity retail providers and marketers.

Cap-and-Trade Regulation

The cap-and-trade regulation is a key element in California's climate plan. It sets a statewide limit on sources responsible for 85 percent of California's greenhouse gas emissions and establishes a price signal needed to drive long-term investment in cleaner fuels and more efficient use of energy. The cap-and-trade rules came into effect on January 1, 2013 and apply to large electric power plants and large industrial plants. In 2015, the rules extended to fuel distributors (including distributors of heating and transportation fuels).

Under the cap-and-trade regulation, companies must hold enough emission allowances to cover their emissions and are free to buy and sell allowances on the open market. California held its first auction of

GHG allowances on November 14, 2012. California's GHG cap-and-trade system is projected to reduce GHG emissions to 1990 levels by the year 2020 and would achieve an approximate 80 percent reduction from 1990 levels by 2050.

Senate Bill 32

SB 32 was signed by Governor Brown on September 8, 2016. SB 32 effectively extends California's GHG emission-reduction goals from year 2020 to year 2030. This new emission-reduction target of 40 percent below 1990 levels by 2030 is intended to promote further GHG-reductions in support of the State's ultimate goal of reducing GHG emissions by 80 percent below 1990 levels by 2050. SB 32 also directs the ARB to update the Climate Change Scoping Plan to address this interim 2030 emission-reduction target.

Senate Bill 375

SB 375 requires Metropolitan Planning Organizations (MPOs) to adopt a Sustainable Communities Strategy (SCS) or Alternative Planning Strategy (APS) that will address land use allocation in that MPOs regional transportation plan. ARB, in consultation with MPOs, establishes regional reduction targets for GHGs emitted by passenger cars and light trucks for the years 2020 and 2035. These reduction targets will be updated every eight years but can be updated every four years if advancements in emissions technologies affect the reduction strategies to achieve the targets. ARB is also charged with reviewing each MPO's SCS or APS for consistency with its assigned targets. If MPOs do not meet the GHG reduction targets, funding for transportation projects may be withheld.

California Renewables Portfolio Standards (Senate Bill 1078, Governor's Order S-14-08, and SB 350)

Senate Bill 1078 (Public Utilities Code Sections 387, 390.1, 399.25 and Article 16) addresses electricity supply and requires that retail sellers of electricity, including investor-owned utilities and community choice aggregators, provide a minimum 20 percent of their supply from renewable sources by 2017. This Senate Bill will affect statewide GHG emissions associated with electricity generation. In 2008, Governor Schwarzenegger signed Executive Order S-14-08, which set the Renewables Portfolio Standard target to 33 percent by 2020. It directed state government agencies and retail sellers of electricity to take all appropriate actions to implement this target. Executive Order S-14-08 was later superseded by Executive Order S-21-09 on September 15, 2009. Executive Order S-21-09 directed the ARB to adopt regulations requiring 33 percent of electricity sold in the State come from renewable energy by 2020. This Executive Order was superseded by statute SB X1-2 in 2011, which obligates all California electricity providers, including investor-owned utilities and publicly owned utilities, to obtain at least 33 percent of their energy from renewable electrical generation facilities by 2020.

SB 350 (Chapter 547, Statues of 2015) further increased the Renewables Portfolio Standard to 50 percent by 2030. The legislation also included interim targets of 40 percent by 2024 and 45 percent by 2027. SB 350 was signed into law on October 7, 2015.

California Building Code

The California Building Code (CBC) contains standards that regulate the method of use, properties, performance, or types of materials used in the construction, alteration, improvement, repair, or rehabilitation of a building or other improvement to real property. The CBC is adopted every three years by the Building Standards Commission (BSC). In the interim, the BSC also adopts annual updates to make necessary mid-term corrections. The CBC standards apply statewide; however, a local jurisdiction may amend a CBC standard if it makes a finding that the amendment is reasonably necessary due to local climatic, geological, or topographical conditions.

Green Building Standards

In essence, green buildings standards are indistinguishable from any other building standards. Both are contained in the CBC and regulate the construction of new buildings and improvements. The only practical distinction between the two is that whereas the focus of traditional building standards has been protecting public health and safety, the focus of green building standards is to improve environmental performance.

AB 32, which mandates the reduction in GHG emissions in California to 1990 levels by 2020, increased the urgency around the adoption of green building standards. In its scoping plan for the implementation of AB 32, ARB identified energy use as the second largest contributor to California's GHG emissions, constituting roughly 25 percent of all such emissions. In recommending a green building strategy as one element of the scoping plan, ARB estimated that green building standards would reduce GHG emissions by approximately 26 million metric tons of CO_2e ($MMTCO_2e$) by 2020. The green buildings standards were most recently updated in 2016.

Senate Bill 97

Senate Bill 97 (SB 97) was enacted in 2007. SB 97 required OPR to develop, and the Natural Resources Agency to adopt, amendments to the CEQA Guidelines addressing the analysis and mitigation of GHG emissions. Those CEQA Guidelines amendments clarified several points, including the following:

- Lead agencies must analyze the GHG emissions of proposed projects and must reach a conclusion regarding the significance of those emissions.
- When a project's GHG emissions may be significant, lead agencies must consider a range of potential mitigation measures to reduce those emissions.
- Lead agencies must analyze potentially significant impacts associated with placing projects in hazardous locations, including locations potentially affected by climate change.
- Lead agencies may significantly streamline the analysis of GHGs on a project level by using a programmatic GHG emissions reduction plan meeting certain criteria.
- CEQA mandates analysis of a proposed project's potential energy use (including transportation-related energy), sources of energy supply, and ways to reduce energy demand, including through the use of efficient transportation alternatives.

As part of the administrative rulemaking process, the California Natural Resources Agency developed a Final Statement of Reasons explaining the legal and factual bases, intent, and purpose of the CEQA Guidelines amendments. The amendments to the CEQA Guidelines implementing SB 97 became effective on March 18, 2010.

Short-Lived Climate Pollutant Reduction Strategy

In March 2017, the ARB adopted the *Short-Lived Climate Pollutant Reduction Strategy* (*SLCP Strategy*) establishing a path to decrease GHG emissions and displace fossil-based natural gas use. Strategies include avoiding landfill methane emissions by reducing the disposal of organics through edible food recovery, composting, in-vessel digestion, and other processes; and recovering methane from wastewater treatment facilities, and manure methane at dairies, and using the methane as a renewable source of natural gas to fuel vehicles or generate electricity. The *SLCP Strategy* also identifies steps to reduce natural gas leaks from oil and gas wells, pipelines, valves, and pumps to improve safety, avoid energy losses, and reduce methane emissions associated with natural gas use. Lastly, the *SLCP Strategy* also identifies measures that can reduce hydrofluorocarbon (HFC) emissions at national and international levels, in addition to State-level action that includes an incentive program to encourage the use of low-Global Warming Potential (GWP) refrigerants, and limitations on the use of high-GWP refrigerants in new refrigeration and air-conditioning equipment (ARB 2017).

IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT

Rule 903

ICAPCD Rule 903 applies to any stationary source that would have the potential to emit air contaminants equal to or in excess of the threshold for a major source of regulated air pollutants. In 2011, ICAPCD amended Rule 903 to add GHGs to the list of regulated pollutants. As part of the revised rule, stationary sources that do not exceed the de minimis emissions level of 20,000 tons CO_2e per year in a 12-month period would not need to meet recordkeeping and reporting requirements. The ICAPCD has no regulations or additional guidelines relative to GHG emissions for residential, commercial, or industrial projects.

IMPACTS & MITIGATION MEASURES

SIGNIFICANCE THRESHOLD CRITERIA

With the passage of AB 32 and SB 97, CEQA documents are now required to contain an analysis of GHG emissions. According to Appendix G of the CEQA Guidelines, a project would normally have a significant effect on the environment if the project would:

GHG-1: Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.

GHG-2: Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

Neither the City of Calexico nor the ICAPCD have adopted GHG reduction programs, plans, or regulations for the reduction of GHGs. However, various other entities have identified recommended GHG-significance thresholds, as discussed below:

State of California

By enacting SB 97, California's lawmakers expressly recognized the need to analyze GHG emissions as a part of the CEQA process. SB 97 required OPR to develop, and the Natural Resources Agency to adopt, amendments to the CEQA Guidelines addressing the analysis and mitigation of GHG emissions. The amendments to the CEQA Guidelines implementing SB 97 became effective on March 18, 2010. These amendments, however, do not establish a threshold of significance for the assessment of GHG impacts. However, lead agencies are granted discretion to establish significance thresholds for their respective jurisdictions, including looking to thresholds developed by other public agencies, or suggested by other experts (i.e., California Air Pollution Control Officers Association (CAPCOA), SCAQMD), so long as any threshold chosen is supported by substantial evidence. The California Natural Resources Agency has also clarified that the amendments recognized the cumulative effects of GHG emissions as they relate to climate change and that GHG impacts should be analyzed in the context of CEQA's requirements for the assessment of cumulative impacts.

California Air Pollution Control Officers Association (CAPCOA)

In its January 2008 "CEQA and Climate Change" white paper, CAPCOA identified a number of potential approaches for determining the significance of GHG emissions in CEQA documents. In its white paper, CAPCOA suggests making significance determinations "on a case-by-case basis in the context of the project at the time it comes forward" when no significance thresholds have been formally adopted by a lead agency. The CAPCOA white paper suggested a bright-line threshold of 900 $MTCO_2e$/year. As proposed, projects generating emissions exceeding this threshold would be considered to have a potentially significant impact. This threshold reflects the amount of emissions that ninety percent of development projects surveyed in four cities within California would generate, which included the cities of Los Angeles, Pleasanton, Dublin, and Livermore.

Stationary Source GHG Thresholds

The ICAPCD has not adopted a GHG significance threshold for stationary sources. However, other air districts in California have adopted significance thresholds that apply to permitted stationary sources. In December 2008, the South Coast Air Quality Management District (SCAQMD) Governing Board adopted an interim GHG significance threshold of 10,000 $MTCO_2e$ for stationary source/industrial projects where the SCAQMD is the lead agency. This threshold was adopted based upon an October 2008 staff report, which concluded that the 10,000 $MTCO_2e$/yr threshold was consistent with achieving an emission capture rate of 90 percent for new or modified stationary sources. Other entities have also adopted a stationary source threshold of 10,000 $MTCO_2e$/yr, including the County of San Diego, Bay Area Air Quality Management District (BAAQMD), Sacramento Metropolitan Air Quality Management District (SMAQMD), and the San Luis Obispo County Air Pollution Control District (SLOAPCD).

SIGNIFICANCE THRESHOLDS

As noted above, the City of Calexico and the ICAPCD have not formally adopted quantitative significance thresholds for determination of whether or not a project would have a significant impact on the environment or conflict with an applicable GHG-reduction plan, policy, or regulation. For purposes of this analysis, project-generated emissions were evaluated based on CAPCOA's recommended GHG threshold of 900 $MTCO_2e$/year, as reflected in CAPCOA's *CEQA and Climate Change* white paper. With regard to stationary sources, ICAPCD's Rule 903 identifies a *de minimis* level of 20,000 MTCO2e. Stationary sources emitting GHGs above this *de minimis* level are required to meet recordkeeping and reporting requirements. This *de minimis* level, however, is not a CEQA threshold of significance. Stationary source emissions were, therefore, evaluated separately in comparison to a threshold of 10,000 $MTCO_2e$/year, based on the thresholds adopted by various other entities (e.g., SCAQMD, BAAQMD, SLOAPCD, SMAQMD, San Diego County).

METHODOLOGY

Construction emissions of GHGs were calculated using the CalEEMod, version 2016.3.2 computer program. Modeling was conducted for the proposed Project based on construction schedules provided by the Project applicant. Other construction modeling assumptions, including off-road equipment usage, mobile-source emission factors, and usage rates, were based on default parameters contained in the model for Imperial County. In accordance with common practice for the evaluation of construction-generated GHGs, construction-generated GHG emissions were amortized over an assumed 30-year project life and included as part of the operational emissions inventory. Emissions modeling assumptions and output files are provided in Appendix A.

Long-term operational emissions of GHGs were also calculated using the CalEEMod, version 2016.3.2, computer program. Modeling was conducted based on the estimated building square footage to be constructed and vehicle trip-generation rates identified in the traffic analysis prepared for this Project. Electricity usage rates were provided by the project engineer taking into account cultivation and non-cultivation usage. The quantification of project-generated GHG emissions takes into account compliance with current building standards, such as the use of low-flow water fixtures and energy-efficient lighting.

PROJECT IMPACTS

Impact GHG-1:	*Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? and,* *Would the project conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?*

Short-term Construction

Estimated construction-generated emissions are summarized in Table 9. As indicated, construction of the proposed project would generate maximum annual emissions of approximately 172.9 metric tons of carbon dioxide equivalent ($MTCO_2e$) per year associated with the construction of Buildings B and C. In total, project construction would generate approximately 368.7 $MTCO_2e$. There are no GHG significance threshold for short-term construction-generated emissions. Based on commonly applied methodologies recommended by other entities, such as the SCAQMD, construction-generated emissions were amortized over a recommended project life of 30 years. These amortized emissions were then included in the analysis of long-term operational emissions for comparison to the GHG threshold. As noted in Table 9, when amortized over an assumed 30-year project life, amortized annual construction emissions would be 12 $MTCO_2e$.

Table 9
Short-term Construction-Generated GHG Emissions

Project Phase	Emissions (MT CO_2e)[1]
Building A	69.3
Buildings B & C	172.9
Building D	126.5
Total at Project Buildout:	368.7
Amortized:	12

1. *Emissions were quantified using CalEEMod, version 2016.3.2. Refer to Appendix A for modeling results and assumptions. Totals may not sum due to rounding.*
2. *Amortized emissions were quantified based on an approximate 30-year project life.*

Long-term Operation

Long-term operation of the proposed Project would result in emissions predominantly associated with energy use and, to a lesser extent, vehicle trips, water use, and solid waste generation. Estimated operational emissions are summarized in Table 10.

Onsite stationary sources would include the installation of four diesel-fueled emergency generators. Assuming compliance with current permitting limitations for the generators of 100 hours/year for routine maintenance and testing purposes, annual GHG emissions associated with operation of the emergency generators would total approximately 70 $MTCO_2e$/year. Operational GHG emissions associated with the emergency generators would not exceed the significance threshold of 10,000 $MTCO_2e$/year. Long-term operational GHG emissions associated with on-site stationary sources would be considered to have a less-than-significant impact.

As indicated in Table 10, annual operational GHG emissions generated by the proposed Project would total approximately 28,769 $MTCO_2e$/year. As indicated, a majority of the emissions generated (roughly 99.7%) would be attributable to energy usage. GHG emissions from mobile sources constitute a majority of the remaining operational GHG emissions. Operational GHG emissions associated with non-stationary sources (excluding the generators) would exceed the threshold of 900 $MTCO_2e$/year and would be considered to have a potentially significant impact on the environment, which could conflict with GHG-reduction planning efforts.

Table 10
Long-Term Operational GHG Emissions

Source	Annual Emissions (MT CO_2e)[1]
Stationary Sources (Emergency Generators)	70
Significance Threshold:	10,000
Exceeds Threshold/Significant Impact?:	*No*
Energy Usage (Natural Gas & Electricity)	28,162
Motor Vehicles	506
Waste Generation	40
Water Usage	49
Total at Project Buildout:	28,757
Amortized Construction Emissions[3]:	12
Total with Amortized Construction Emissions[4]:	28,769
Significance Threshold:	900
Exceeds Threshold/Significant Impact?:	*Yes*

1. *Emissions were quantified using CalEEMod, version 2016.3.2. Totals may not sum due to rounding. Assumes compliance with current building standards and regulatory requirements for energy and water conservation.*
2. *Construction-generated emissions were amortized assuming a 30-year project life.*
3. *There are no GHG significance threshold for short-term construction-generated emissions. Based on commonly applied methodologies recommended by other entities, such as the SCAQMD, construction-generated emissions were amortized over a recommended project life of 30 years. These amortized emissions were then included in the analysis of long-term operational emissions for comparison to the GHG threshold. Construction-generated GHGs are summarized in Table 9.*
4. *Stationary-source emissions includes four diesel-fueled emergency generators operating 100 hours/year/generator for routine testing and maintenance activities, in accordance with typically applied ICAPCD permit limitations.*

Mitigation Measures

Mitigation Measure GHG-1: The following measures shall be implemented:

a. Implement MM AQ-1j – n and AQ-2.

b. Incorporate water-reducing features into building and landscape design exceeding current building standards. Such measures shall include, at a minimum, the following:

- Installation of xeriscape landscaping.
- Installation of automated water-efficient irrigation systems and building fixtures.

c. Incorporate energy-reducing features into building and site design exceeding current building standards. Such measures shall include, at a minimum, the use of high-efficiency HVAC & dehumidification systems.

d. Incorporate energy-reducing practices to minimize peak energy loads. Such measures may include the staggering of grow room schedules over a 24-hour period, so the minimum number of rooms run concurrently. Similarly, other energy-intensive processes such as extraction, cleaning or electric heating should be staggered and scheduled carefully with lighting cycles to minimize peak power demands. Scheduling overlapping or high-energy demand activities during the nighttime when outdoor air temperatures are lower can reduce the cooling load during peak energy demand time.

e. Incorporate the use of alternative/renewable energy sources (e.g., solar photovoltaic, wind-power systems) to the maximum extent achievable through site and building design.

f. Light colored "cool" roofs and cool pavements shall be included in building and site designs to the extent practical.

g. To the extent practical, on-site plant waste shall be diverted for composting or recycling. Recycling of other materials (e.g., paper, plastic, glass, etc.) shall comply with current regulatory requirements.

Implementation: Prior to Construction

Compliance Enforcement: City of Calexico, Development Services Department

Significance after Mitigation

Mitigation Measures AQ-1j – n would require implementation of measures that would minimize diesel-exhaust emissions from off-road equipment, which would reduce short-lived GHG emissions of black carbon. With implementation of the above mitigation measures and Mitigation Measures AQ-2, GHG emissions associated with Project operations would be significantly reduced. GHG reductions would be achieved through the implementation of measures to reduce energy use, such as the installation of energy-efficient lighting and alternative/renewable energy sources (e.g., solar photovoltaic (PV) and wind-power systems.) With installation of energy-efficient lighting, annual operational GHG emissions associated with electricity use would be reduced to approximately 26,269 $MTCO_2e$. The amount of energy demand provided by onsite renewable energy sources, such solar PV systems, would vary depending largely on building and site design constraints. Based on preliminary information provided by the project applicant, it is estimated that on-site solar PV systems could reduce on-site electricity demand by roughly 16 percent. Based on this estimate, operational GHG emissions associated with electricity use could be further reduced to approximately 22,066 $MTCO_2e$ with installation of solar PV systems. With the inclusion of GHG emissions associated with natural gas use, combined energy-related GHG emissions with mitigation would total 22,084 $MTCO_2e$/year. Measures would also be implemented to reduce waste generation, as well as, water, and motor vehicle use. Implementation of these additional measures would reduce operational GHG emisisons by roughly 20 $MTCO_2e$/year, or more. In total, implementation of the proposed mitigation measures would reduce operational emissions by roughly 6,098 $MTCO_2e$/year, or more. With the inclusion of amortized construction emissions, mitigated operational emissions would total approximately 22,671 $MTCO_2e$/year. Mitigated operational emissions, particularly emissions associated with energy use, would continue to exceed the GHG significance threshold of 900 $MTCO_2e$/year. As a result, even with available mitigation mesures, increases in project-related GHG emissions could have a significant impact on the environment, which could conflict with GHG-reduction planning efforts. This impact is considered *significant and unavoidable*.

REFERENCES

California Air Pollution Control Officers Association (CAPCOA). January 2008. *CEQA & Climate Change*.

California Air Pollution Control Officers Association (CAPCOA). Accessed: April 2, 2018. *Health Effects*. Website url: http://www.capcoa.org/health-effects/.

California Air Resources Board (ARB). 2000. *Diesel Risk Reduction Plan*. Available at url: http://www.arb.ca.gov/diesel/documents/rrpapp.htm.

California Air Resources Board (ARB). April 2005. *Air Quality and Land Use Handbook: A Community Health Perspective*.

California Air Resources Board (ARB). 2018a. *Air Quality Standards and Area Designation*. Website url: http://www.arb.ca.gov/desig/desig.htm.

California Air Resources Board (ARB). 2018b. Accessed November 10, 2014. *Air Quality Data*. url: http://www.arb.ca.gov/aqd/aqdpage.htm.

California Air Resources Board (ARB). Accessed: April 2018c. *Assembly Bill 32 Overview*. Website url: http://www.arb.ca.gov/cc/ab32/ab32.htm.

California Building Standards Commission (BSC). Accessed: April 12, 2018. *CalGreen*. Website URL: http://www.bsc.ca.gov/Home/CALGreen.aspx.

California Air Resources Board (ARB). Accessed April 12, 2018. *Cap-and-Trade Program*. https://www.arb.ca.gov/cc/capandtrade/capandtrade.htm.

California Air Resources Board (ARB). 2017. *California's 2017 Climate Change Scoping Plan*. Available at website url: https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf.

California Department of Conservation (DOC). Division of Mines and Geology. August, 2000. *A General Location Guide for Ultramafic Rocks in California-Areas More Likely to Contain Naturally Occurring Asbestos. Open File Report 2000-19.*

Imperial County Air Pollution Control District (ICAPCD). July 13, 2010. *Final 2009 1997 8-Hour Ozone Modified Air Quality Management Plan.*

Imperial County Air Pollution Control District (ICAPCD). 2017. *Air Quality Handbook*.

Imperial County Air Pollution Control District (ICAPCD). 2018. *Imperial Valley Air Quality*. Website url: http://www.imperialvalleyair.org.

International Panel on Climate Change (IPCC). 2007. *Fourth Assessment Report: Climate Change 2007*.

LOS Engineering, Inc. (LOS). March 16, 2018. *Draft Focused Traffic Analysis. Trinity Cannabis Cultivation & Manufacturing Facility.*

McGee Sharon Architects, Inc. 2018. Proposed Project Layout.

National Oceanic and Atmospheric Administration (NOAA). 2014. *Greenhouse Gases Continued Rising in 2013; 34 Percent Increase Since 1990.*

Salas, Axel. APC Environmental Coordinator, Imperial County Air Pollution Control District. April 19, 2018. Personal Communication with Kurt Legleiter, Principal, AMBIENT Air Quality & Noise Consulting.

United States Environmental Protection Agency (U.S. EPA). 2018a. *Overview of Greenhouse Gas Emissions.* Website https://www.epa.gov/ghgemissions/overview-greenhouse-gases.

United States Environmental Protection Agency (U.S. EPA). 2018b. *Greenhouse Gas Emissions, Global Greenhouse Gas Emissions Data.* https://www.epa.gov/ghgemissions/global-greenhouse-gas-emissions-data

APPENDIX A

Emissions Modeling

CALEEMOD

CONSTRUCTION EMISSIONS MODELING

Trinity Cannabis Facility - Bldg. A & Trans/Admin Bldgs. Construction

Imperial County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	3.58	1000sqft	0.08	3,579.00	0
Parking Lot	53.00	Space	0.48	21,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	12
Climate Zone	15			**Operational Year**	2021
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1270.9	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Trinity Cannabis Facility - Bldg. A & Trans/Admin Bldgs. Construction - Imperial County, Annual

Project Characteristics - Operational emissions not included.

Land Use - Total of 3,579 sf, 53 parking spaces. (1,056 office, 2,200 admin, 323 guard shack)

Construction Phase - Const schedules based on information provided. Assumes overall const period of 6 months.

Off-road Equipment - Off-road equipment based on model defaults.

Trips and VMT - Trip gen assumes based on model defaults.

Grading - Disturbance based on model defaults.

Architectural Coating - Bld A is existing. Arch coating adjusted to reflect 4884000 int sf and 1627468 ext sf for trans/admin bldgs.

Vehicle Trips - Operational not included.

Construction Off-road Equipment Mitigation - Includes watering, onsite speed limit of 15 mph, T3 equipment.

On-road Fugitive Dust - Assumes 95% paved travel.

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
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
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	PhaseEndDate	11/28/2018	12/5/2018
tblConstructionPhase	PhaseEndDate	12/5/2018	12/19/2018
tblConstructionPhase	PhaseStartDate	11/29/2018	12/6/2018
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.0970	0.6507	0.4816	7.6000e-004	0.4507	0.0398	0.4905	0.0462	0.0368	0.0829						69.3083
Maximum	**0.0970**	**0.6507**	**0.4816**	**7.6000e-004**	**0.4507**	**0.0398**	**0.4905**	**0.0462**	**0.0368**	**0.0829**						**69.3083**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.0510	0.3766	0.4914	7.6000e-004	0.1414	0.0220	0.1634	0.0151	0.0220	0.0370						69.3083
Maximum	**0.0510**	**0.3766**	**0.4914**	**7.6000e-004**	**0.1414**	**0.0220**	**0.1634**	**0.0151**	**0.0220**	**0.0370**						**69.3083**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**47.43**	**42.13**	**-2.04**	**0.00**	**68.63**	**44.82**	**66.69**	**67.37**	**40.22**	**55.33**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**7-1-2018**	**9-30-2018**	0.4178	0.2315
		Highest	0.4178	0.2315

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0183	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.0800e-003
Energy	7.0000e-005	6.1000e-004	5.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005						24.6329
Mobile	9.7800e-003	0.0747	0.1014	2.7000e-004	7.0665	1.9000e-004	7.0667	0.7053	1.8000e-004	0.7054						24.7771
Waste						0.0000	0.0000		0.0000	0.0000						2.2329
Water						0.0000	0.0000		0.0000	0.0000						7.3534
Total	**0.0282**	**0.0753**	**0.1025**	**2.7000e-004**	**7.0665**	**2.4000e-004**	**7.0668**	**0.7053**	**2.3000e-004**	**0.7055**						**58.9973**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0183	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.0800e-003
Energy	7.0000e-005	6.1000e-004	5.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005						24.6329
Mobile	9.7800e-003	0.0747	0.1014	2.7000e-004	7.0665	1.9000e-004	7.0667	0.7053	1.8000e-004	0.7054						24.7771
Waste						0.0000	0.0000		0.0000	0.0000						2.2329
Water						0.0000	0.0000		0.0000	0.0000						7.3534
Total	**0.0282**	**0.0753**	**0.1025**	**2.7000e-004**	**7.0665**	**2.4000e-004**	**7.0668**	**0.7053**	**2.3000e-004**	**0.7055**						**58.9973**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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

Trinity Cannabis Facility - Bldg. A & Trans/Admin Bldgs. Construction - Imperial County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2018	7/2/2018	5	1	
2	Grading	Grading	7/3/2018	7/4/2018	5	2	
3	Building Construction	Building Construction	7/5/2018	11/21/2018	5	100	
4	Paving	Paving	11/22/2018	12/5/2018	5	10	
5	Architectural Coating	Architectural Coating	12/6/2018	12/19/2018	5	10	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.48

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 5,369; Non-Residential Outdoor: 1,790; Striped Parking Area: 1,272 (Architectural Coating – sqft)

<u>OffRoad Equipment</u>

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	10.00	4.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005						0.0000
Off-Road	3.9000e-004	4.8800e-003	2.1300e-003	0.0000		2.1000e-004	2.1000e-004		1.9000e-004	1.9000e-004						0.4492
Total	**3.9000e-004**	**4.8800e-003**	**2.1300e-003**	**0.0000**	**2.7000e-004**	**2.1000e-004**	**4.8000e-004**	**3.0000e-005**	**1.9000e-004**	**2.2000e-004**						**0.4492**

3.2 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	2.0000e-005	1.0000e-005	1.2000e-004	0.0000	1.3100e-003	0.0000	1.3100e-003	1.3000e-004	0.0000	1.3000e-004						0.0124
Total	**2.0000e-005**	**1.0000e-005**	**1.2000e-004**	**0.0000**	**1.3100e-003**	**0.0000**	**1.3100e-003**	**1.3000e-004**	**0.0000**	**1.3000e-004**						**0.0124**

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					1.0000e-004	0.0000	1.0000e-004	1.0000e-005	0.0000	1.0000e-005						0.0000
Off-Road	1.2000e-004	2.4400e-003	2.9300e-003	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004						0.4492
Total	**1.2000e-004**	**2.4400e-003**	**2.9300e-003**	**0.0000**	**1.0000e-004**	**1.2000e-004**	**2.2000e-004**	**1.0000e-005**	**1.2000e-004**	**1.3000e-004**						**0.4492**

3.2 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	2.0000e-005	1.0000e-005	1.2000e-004	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005						0.0124
Total	**2.0000e-005**	**1.0000e-005**	**1.2000e-004**	**0.0000**	**4.1000e-004**	**0.0000**	**4.1000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**						**0.0124**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004						0.0000
Off-Road	1.0600e-003	9.4300e-003	7.7800e-003	1.0000e-005		6.2000e-004	6.2000e-004		5.9000e-004	5.9000e-004						1.0659
Total	**1.0600e-003**	**9.4300e-003**	**7.7800e-003**	**1.0000e-005**	**7.5000e-004**	**6.2000e-004**	**1.3700e-003**	**4.1000e-004**	**5.9000e-004**	**1.0000e-003**						**1.0659**

3.3 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	5.2500e-003	0.0000	5.2500e-003	5.3000e-004	0.0000	5.3000e-004						0.0497
Total	**7.0000e-005**	**5.0000e-005**	**4.9000e-004**	**0.0000**	**5.2500e-003**	**0.0000**	**5.2500e-003**	**5.3000e-004**	**0.0000**	**5.3000e-004**						**0.0497**

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					2.9000e-004	0.0000	2.9000e-004	1.6000e-004	0.0000	1.6000e-004						0.0000
Off-Road	2.7000e-004	5.9600e-003	7.9400e-003	1.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004						1.0659
Total	**2.7000e-004**	**5.9600e-003**	**7.9400e-003**	**1.0000e-005**	**2.9000e-004**	**4.0000e-004**	**6.9000e-004**	**1.6000e-004**	**4.0000e-004**	**5.6000e-004**						**1.0659**

3.3 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.6400e-003	0.0000	1.6400e-003	1.7000e-004	0.0000	1.7000e-004						0.0497
Total	**7.0000e-005**	**5.0000e-005**	**4.9000e-004**	**0.0000**	**1.6400e-003**	**0.0000**	**1.6400e-003**	**1.7000e-004**	**0.0000**	**1.7000e-004**						**0.0497**

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0542	0.5516	0.3876	5.7000e-004		0.0354	0.0354		0.0326	0.0326						52.4106
Total	**0.0542**	**0.5516**	**0.3876**	**5.7000e-004**		**0.0354**	**0.0354**		**0.0326**	**0.0326**						**52.4106**

3.4 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	1.1600e-003	0.0278	8.4700e-003	7.0000e-005	0.1283	2.3000e-004	0.1285	0.0131	2.2000e-004	0.0133						6.1733
Worker	3.3800e-003	2.6900e-003	0.0247	3.0000e-005	0.2624	2.0000e-005	0.2624	0.0266	2.0000e-005	0.0266						2.4827
Total	**4.5400e-003**	**0.0305**	**0.0332**	**1.0000e-004**	**0.3907**	**2.5000e-004**	**0.3909**	**0.0397**	**2.4000e-004**	**0.0400**						**8.6561**

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	0.0140	0.3065	0.3981	5.7000e-004		0.0193	0.0193		0.0193	0.0193						52.4105
Total	**0.0140**	**0.3065**	**0.3981**	**5.7000e-004**		**0.0193**	**0.0193**		**0.0193**	**0.0193**						**52.4105**

3.4 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	1.1600e-003	0.0278	8.4700e-003	7.0000e-005	0.0404	2.3000e-004	0.0406	4.3200e-003	2.2000e-004	4.5500e-003						6.1733
Worker	3.3800e-003	2.6900e-003	0.0247	3.0000e-005	0.0822	2.0000e-005	0.0822	8.6300e-003	2.0000e-005	8.6500e-003						2.4827
Total	**4.5400e-003**	**0.0305**	**0.0332**	**1.0000e-004**	**0.1225**	**2.5000e-004**	**0.1228**	**0.0130**	**2.4000e-004**	**0.0132**						**8.6561**

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.6000e-003	0.0437	0.0361	6.0000e-005		2.5500e-003	2.5500e-003		2.3700e-003	2.3700e-003						4.8883
Paving	6.3000e-004					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**5.2300e-003**	**0.0437**	**0.0361**	**6.0000e-005**		**2.5500e-003**	**2.5500e-003**		**2.3700e-003**	**2.3700e-003**						**4.8883**

3.5 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	6.1000e-004	4.8000e-004	4.4500e-003	0.0000	0.0472	0.0000	0.0472	4.7900e-003	0.0000	4.8000e-003						0.4469
Total	**6.1000e-004**	**4.8000e-004**	**4.4500e-003**	**0.0000**	**0.0472**	**0.0000**	**0.0472**	**4.7900e-003**	**0.0000**	**4.8000e-003**						**0.4469**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1200e-003	0.0238	0.0345	6.0000e-005		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003						4.8883
Paving	6.3000e-004					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.7500e-003**	**0.0238**	**0.0345**	**6.0000e-005**		**1.4500e-003**	**1.4500e-003**		**1.4500e-003**	**1.4500e-003**						**4.8883**

3.5 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	6.1000e-004	4.8000e-004	4.4500e-003	0.0000	0.0148	0.0000	0.0148	1.5500e-003	0.0000	1.5600e-003						0.4469
Total	**6.1000e-004**	**4.8000e-004**	**4.4500e-003**	**0.0000**	**0.0148**	**0.0000**	**0.0148**	**1.5500e-003**	**0.0000**	**1.5600e-003**						**0.4469**

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0293					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	1.4900e-003	0.0100	9.2700e-003	1.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004						1.2797
Total	**0.0308**	**0.0100**	**9.2700e-003**	**1.0000e-005**		**7.5000e-004**	**7.5000e-004**		**7.5000e-004**	**7.5000e-004**						**1.2797**

3.6 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	5.2500e-003	0.0000	5.2500e-003	5.3000e-004	0.0000	5.3000e-004						0.0497
Total	**7.0000e-005**	**5.0000e-005**	**4.9000e-004**	**0.0000**	**5.2500e-003**	**0.0000**	**5.2500e-003**	**5.3000e-004**	**0.0000**	**5.3000e-004**						**0.0497**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0293					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	3.0000e-004	6.7800e-003	9.1600e-003	1.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004						1.2797
Total	**0.0296**	**6.7800e-003**	**9.1600e-003**	**1.0000e-005**		**4.8000e-004**	**4.8000e-004**		**4.8000e-004**	**4.8000e-004**						**1.2797**

3.6 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.6400e-003	0.0000	1.6400e-003	1.7000e-004	0.0000	1.7000e-004						0.0497
Total	**7.0000e-005**	**5.0000e-005**	**4.9000e-004**	**0.0000**	**1.6400e-003**	**0.0000**	**1.6400e-003**	**1.7000e-004**	**0.0000**	**1.7000e-004**						**0.0497**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	9.7800e-003	0.0747	0.1014	2.7000e-004	7.0665	1.9000e-004	7.0667	0.7053	1.8000e-004	0.7054						24.7771
Unmitigated	9.7800e-003	0.0747	0.1014	2.7000e-004	7.0665	1.9000e-004	7.0667	0.7053	1.8000e-004	0.7054						24.7771

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	24.44	8.91	2.61	37,933	37,933
Parking Lot	0.00	0.00	0.00		
Total	24.44	8.91	2.61	37,933	37,933

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	6.70	5.00	8.90	59.00	28.00	13.00	79	19	2
Parking Lot	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.509486	0.032430	0.160670	0.124446	0.017653	0.005129	0.019157	0.119824	0.003361	0.001189	0.005223	0.000739	0.000694
Parking Lot	0.509486	0.032430	0.160670	0.124446	0.017653	0.005129	0.019157	0.119824	0.003361	0.001189	0.005223	0.000739	0.000694

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000						23.9663
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						23.9663
NaturalGas Mitigated	7.0000e-005	6.1000e-004	5.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005						0.6667
NaturalGas Unmitigated	7.0000e-005	6.1000e-004	5.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005						0.6667

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					
Industrial Park	12419.1	7.0000e-005	6.1000e-004	5.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005						0.6667
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**7.0000e-005**	**6.1000e-004**	**5.1000e-004**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**						**0.6667**

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					
Industrial Park	12419.1	7.0000e-005	6.1000e-004	5.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005						0.6667
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**7.0000e-005**	**6.1000e-004**	**5.1000e-004**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**						**0.6667**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	34072.1				19.6804
Parking Lot	7420				4.2859
Total					**23.9663**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	34072.1				19.6804
Parking Lot	7420				4.2859
Total					**23.9663**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0183	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.0800e-003
Unmitigated	0.0183	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.0800e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.9300e-003					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.0154					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	5.0000e-005	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.0800e-003
Total	**0.0183**	**0.0000**	**5.2000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**						**1.0800e-003**

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	2.9300e-003					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.0154					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	5.0000e-005	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.0800e-003
Total	**0.0183**	**0.0000**	**5.2000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**						**1.0800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				7.3534
Unmitigated				7.3534

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0.827875 / 0				7.3534
Parking Lot	0 / 0				0.0000
Total					**7.3534**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0.827875 / 0				7.3534
Parking Lot	0 / 0				0.0000
Total					**7.3534**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				2.2329
Unmitigated				2.2329

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	4.44				2.2329
Parking Lot	0				0.0000
Total					**2.2329**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	4.44				2.2329
Parking Lot	0				0.0000
Total					**2.2329**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Trinity Cannabis Facility - Bldg. A & Trans/Admin Bldgs. Construction

Imperial County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	3.58	1000sqft	0.08	3,579.00	0
Parking Lot	53.00	Space	0.48	21,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	12
Climate Zone	15			**Operational Year**	2021
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1270.9	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Trinity Cannabis Facility - Bldg. A & Trans/Admin Bldgs. Construction - Imperial County, Summer

Project Characteristics - Operational emissions not included.

Land Use - Total of 3,579 sf, 53 parking spaces. (1,056 office, 2,200 admin, 323 guard shack)

Construction Phase - Const schedules based on information provided. Assumes overall const period of 6 months.

Off-road Equipment - Off-road equipment based on model defaults.

Trips and VMT - Trip gen assumes based on model defaults.

Grading - Disturbance based on model defaults.

Architectural Coating - Bld A is existing. Arch coating adjusted to reflect 4884000 int sf and 1627468 ext sf for trans/admin bldgs.

Vehicle Trips - Operational not included.

Construction Off-road Equipment Mitigation - Includes watering, onsite speed limit of 15 mph, T3 equipment.

On-road Fugitive Dust - Assumes 95% paved travel.

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
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
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	PhaseEndDate	11/28/2018	12/5/2018
tblConstructionPhase	PhaseEndDate	12/5/2018	12/19/2018
tblConstructionPhase	PhaseStartDate	11/29/2018	12/6/2018
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	6.1766	11.6208	8.5192	0.0133	9.7646	0.7138	10.2762	0.9903	0.6568	1.5586						1,354.0725
Maximum	**6.1766**	**11.6208**	**8.5192**	**0.0133**	**9.7646**	**0.7138**	**10.2762**	**0.9903**	**0.6568**	**1.5586**						**1,354.0725**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	5.9374	6.7188	8.7305	0.0133	3.0556	0.4021	3.3471	0.3394	0.4021	0.7415						1,354.0725
Maximum	**5.9374**	**6.7188**	**8.7305**	**0.0133**	**3.0556**	**0.4021**	**3.3471**	**0.3394**	**0.4021**	**0.7415**						**1,354.0725**

Trinity Cannabis Facility - Bldg. A & Trans/Admin Bldgs. Construction - Imperial County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**3.87**	**42.18**	**-2.48**	**0.00**	**68.71**	**43.66**	**67.43**	**65.73**	**38.78**	**52.43**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1007	5.0000e-005	5.8000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0132
Energy	3.7000e-004	3.3400e-003	2.8000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004						4.0267
Mobile	0.0827	0.5200	0.8360	1.9900e-003	49.6743	1.3200e-003	49.6757	4.9577	1.2500e-003	4.9590						203.3924
Total	**0.1838**	**0.5233**	**0.8446**	**2.0100e-003**	**49.6743**	**1.5900e-003**	**49.6759**	**4.9577**	**1.5200e-003**	**4.9592**						**207.4323**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1007	5.0000e-005	5.8000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0132
Energy	3.7000e-004	3.3400e-003	2.8000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004						4.0267
Mobile	0.0827	0.5200	0.8360	1.9900e-003	49.6743	1.3200e-003	49.6757	4.9577	1.2500e-003	4.9590						203.3924
Total	**0.1838**	**0.5233**	**0.8446**	**2.0100e-003**	**49.6743**	**1.5900e-003**	**49.6759**	**4.9577**	**1.5200e-003**	**4.9592**						**207.4323**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2018	7/2/2018	5	1	
2	Grading	Grading	7/3/2018	7/4/2018	5	2	
3	Building Construction	Building Construction	7/5/2018	11/21/2018	5	100	
4	Paving	Paving	11/22/2018	12/5/2018	5	10	
5	Architectural Coating	Architectural Coating	12/6/2018	12/19/2018	5	10	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.48

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 5,369; Non-Residential Outdoor: 1,790; Striped Parking Area: 1,272 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	10.00	4.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573						0.0000
Off-Road	0.7858	9.7572	4.2514	9.7600e-003		0.4180	0.4180		0.3846	0.3846						990.3596
Total	**0.7858**	**9.7572**	**4.2514**	**9.7600e-003**	**0.5303**	**0.4180**	**0.9483**	**0.0573**	**0.3846**	**0.4418**						**990.3596**

3.2 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0407	0.0261	0.3024	3.1000e-004	2.7124	2.0000e-004	2.7126	0.2751	1.9000e-004	0.2753						30.2345
Total	**0.0407**	**0.0261**	**0.3024**	**3.1000e-004**	**2.7124**	**2.0000e-004**	**2.7126**	**0.2751**	**1.9000e-004**	**0.2753**						**30.2345**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223						0.0000
Off-Road	0.2382	4.8716	5.8579	9.7600e-003		0.2405	0.2405		0.2405	0.2405						990.3596
Total	**0.2382**	**4.8716**	**5.8579**	**9.7600e-003**	**0.2068**	**0.2405**	**0.4473**	**0.0223**	**0.2405**	**0.2629**						**990.3596**

3.2 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0407	0.0261	0.3024	3.1000e-004	0.8488	2.0000e-004	0.8490	0.0890	1.9000e-004	0.0892						30.2345
Total	**0.0407**	**0.0261**	**0.3024**	**3.1000e-004**	**0.8488**	**2.0000e-004**	**0.8490**	**0.0890**	**1.9000e-004**	**0.0892**						**30.2345**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138						0.0000
Off-Road	1.0643	9.4295	7.7762	0.0120		0.6228	0.6228		0.5943	0.5943						1,174.9857
Total	**1.0643**	**9.4295**	**7.7762**	**0.0120**	**0.7528**	**0.6228**	**1.3755**	**0.4138**	**0.5943**	**1.0081**						**1,174.9857**

3.3 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0814	0.0521	0.6049	6.1000e-004	5.4248	4.1000e-004	5.4252	0.5502	3.7000e-004	0.5505						60.4691
Total	**0.0814**	**0.0521**	**0.6049**	**6.1000e-004**	**5.4248**	**4.1000e-004**	**5.4252**	**0.5502**	**3.7000e-004**	**0.5505**						**60.4691**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2936	0.0000	0.2936	0.1614	0.0000	0.1614						0.0000
Off-Road	0.2652	5.9644	7.9381	0.0120		0.4017	0.4017		0.4017	0.4017						1,174.9857
Total	**0.2652**	**5.9644**	**7.9381**	**0.0120**	**0.2936**	**0.4017**	**0.6953**	**0.1614**	**0.4017**	**0.5631**						**1,174.9857**

3.3 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0814	0.0521	0.6049	6.1000e-004	1.6975	4.1000e-004	1.6979	0.1780	3.7000e-004	0.1784						60.4691
Total	**0.0814**	**0.0521**	**0.6049**	**6.1000e-004**	**1.6975**	**4.1000e-004**	**1.6979**	**0.1780**	**3.7000e-004**	**0.1784**						**60.4691**

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0848	11.0316	7.7512	0.0114		0.7087	0.7087		0.6520	0.6520						1,155.4555
Total	**1.0848**	**11.0316**	**7.7512**	**0.0114**		**0.7087**	**0.7087**		**0.6520**	**0.6520**						**1,155.4555**

3.4 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0233	0.5371	0.1631	1.3200e-003	2.6515	4.6600e-003	2.6561	0.2706	4.4600e-003	0.2751						138.1479
Worker	0.0814	0.0521	0.6049	6.1000e-004	5.4248	4.1000e-004	5.4252	0.5502	3.7000e-004	0.5505						60.4691
Total	**0.1046**	**0.5892**	**0.7680**	**1.9300e-003**	**8.0762**	**5.0700e-003**	**8.0813**	**0.8208**	**4.8300e-003**	**0.8256**						**198.6170**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2793	6.1296	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855						1,155.4555
Total	**0.2793**	**6.1296**	**7.9624**	**0.0114**		**0.3855**	**0.3855**		**0.3855**	**0.3855**						**1,155.4555**

3.4 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0233	0.5371	0.1631	1.3200e-003	0.8338	4.6600e-003	0.8384	0.0891	4.4600e-003	0.0936						138.1479
Worker	0.0814	0.0521	0.6049	6.1000e-004	1.6975	4.1000e-004	1.6979	0.1780	3.7000e-004	0.1784						60.4691
Total	**0.1046**	**0.5892**	**0.7680**	**1.9300e-003**	**2.5313**	**5.0700e-003**	**2.5364**	**0.2672**	**4.8300e-003**	**0.2720**						**198.6170**

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9202	8.7447	7.2240	0.0113		0.5109	0.5109		0.4735	0.4735						1,077.6798
Paving	0.1258					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.0460**	**8.7447**	**7.2240**	**0.0113**		**0.5109**	**0.5109**		**0.4735**	**0.4735**						**1,077.6798**

3.5 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1464	0.0938	1.0888	1.1000e-003	9.7646	7.3000e-004	9.7653	0.9903	6.7000e-004	0.9910						108.8443
Total	**0.1464**	**0.0938**	**1.0888**	**1.1000e-003**	**9.7646**	**7.3000e-004**	**9.7653**	**0.9903**	**6.7000e-004**	**0.9910**						**108.8443**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2239	4.7579	6.9028	0.0113		0.2908	0.2908		0.2908	0.2908						1,077.6798
Paving	0.1258					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.3496**	**4.7579**	**6.9028**	**0.0113**		**0.2908**	**0.2908**		**0.2908**	**0.2908**						**1,077.6798**

3.5 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1464	0.0938	1.0888	1.1000e-003	3.0556	7.3000e-004	3.0563	0.3204	6.7000e-004	0.3211						108.8443
Total	**0.1464**	**0.0938**	**1.0888**	**1.1000e-003**	**3.0556**	**7.3000e-004**	**3.0563**	**0.3204**	**6.7000e-004**	**0.3211**						**108.8443**

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.8617					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506						282.1171
Total	**6.1603**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**						**282.1171**

3.6 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0163	0.0104	0.1210	1.2000e-004	1.0850	8.0000e-005	1.0850	0.1100	7.0000e-005	0.1101						12.0938
Total	**0.0163**	**0.0104**	**0.1210**	**1.2000e-004**	**1.0850**	**8.0000e-005**	**1.0850**	**0.1100**	**7.0000e-005**	**0.1101**						**12.0938**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.8617					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951						282.1171
Total	**5.9211**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**						**282.1171**

3.6 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0163	0.0104	0.1210	1.2000e-004	0.3395	8.0000e-005	0.3396	0.0356	7.0000e-005	0.0357						12.0938
Total	**0.0163**	**0.0104**	**0.1210**	**1.2000e-004**	**0.3395**	**8.0000e-005**	**0.3396**	**0.0356**	**7.0000e-005**	**0.0357**						**12.0938**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0827	0.5200	0.8360	1.9900e-003	49.6743	1.3200e-003	49.6757	4.9577	1.2500e-003	4.9590						203.3924
Unmitigated	0.0827	0.5200	0.8360	1.9900e-003	49.6743	1.3200e-003	49.6757	4.9577	1.2500e-003	4.9590						203.3924

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	24.44	8.91	2.61	37,933	37,933
Parking Lot	0.00	0.00	0.00		
Total	24.44	8.91	2.61	37,933	37,933

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	6.70	5.00	8.90	59.00	28.00	13.00	79	19	2
Parking Lot	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.509486	0.032430	0.160670	0.124446	0.017653	0.005129	0.019157	0.119824	0.003361	0.001189	0.005223	0.000739	0.000694
Parking Lot	0.509486	0.032430	0.160670	0.124446	0.017653	0.005129	0.019157	0.119824	0.003361	0.001189	0.005223	0.000739	0.000694

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.7000e-004	3.3400e-003	2.8000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004						4.0267
NaturalGas Unmitigated	3.7000e-004	3.3400e-003	2.8000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004						4.0267

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	34.025	3.7000e-004	3.3400e-003	2.8000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004						4.0267
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**3.7000e-004**	**3.3400e-003**	**2.8000e-003**	**2.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**						**4.0267**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	0.034025	3.7000e-004	3.3400e-003	2.8000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004						4.0267
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**3.7000e-004**	**3.3400e-003**	**2.8000e-003**	**2.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**						**4.0267**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1007	5.0000e-005	5.8000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0132
Unmitigated	0.1007	5.0000e-005	5.8000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0132

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0161					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.0841					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	5.4000e-004	5.0000e-005	5.8000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0132
Total	**0.1007**	**5.0000e-005**	**5.8000e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**						**0.0132**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0161					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.0841					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	5.4000e-004	5.0000e-005	5.8000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0132
Total	**0.1007**	**5.0000e-005**	**5.8000e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**						**0.0132**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Trinity Cannabis Facility - Bldg. A & Trans/Admin Bldgs. Construction

Imperial County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	3.58	1000sqft	0.08	3,579.00	0
Parking Lot	53.00	Space	0.48	21,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	12
Climate Zone	15			**Operational Year**	2021
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1270.9	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Trinity Cannabis Facility - Bldg. A & Trans/Admin Bldgs. Construction - Imperial County, Winter

Project Characteristics - Operational emissions not included.

Land Use - Total of 3,579 sf, 53 parking spaces. (1,056 office, 2,200 admin, 323 guard shack)

Construction Phase - Const schedules based on information provided. Assumes overall const period of 6 months.

Off-road Equipment - Off-road equipment based on model defaults.

Trips and VMT - Trip gen assumes based on model defaults.

Grading - Disturbance based on model defaults.

Architectural Coating - Bld A is existing. Arch coating adjusted to reflect 4884000 int sf and 1627468 ext sf for trans/admin bldgs.

Vehicle Trips - Operational not included.

Construction Off-road Equipment Mitigation - Includes watering, onsite speed limit of 15 mph, T3 equipment.

On-road Fugitive Dust - Assumes 95% paved travel.

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
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
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	PhaseEndDate	11/28/2018	12/5/2018
tblConstructionPhase	PhaseEndDate	12/5/2018	12/19/2018
tblConstructionPhase	PhaseStartDate	11/29/2018	12/6/2018
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	6.1733	11.6386	8.3908	0.0132	9.7646	0.7138	10.2762	0.9903	0.6569	1.5586						1,339.4600
Maximum	**6.1733**	**11.6386**	**8.3908**	**0.0132**	**9.7646**	**0.7138**	**10.2762**	**0.9903**	**0.6569**	**1.5586**						**1,339.4600**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	5.9341	6.7366	8.6020	0.0132	3.0556	0.4021	3.3471	0.3394	0.4021	0.7415						1,339.4600
Maximum	**5.9341**	**6.7366**	**8.6020**	**0.0132**	**3.0556**	**0.4021**	**3.3471**	**0.3394**	**0.4021**	**0.7415**						**1,339.4600**

Trinity Cannabis Facility - Bldg. A & Trans/Admin Bldgs. Construction - Imperial County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**3.87**	**42.12**	**-2.52**	**0.00**	**68.71**	**43.67**	**67.43**	**65.73**	**38.79**	**52.43**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1007	5.0000e-005	5.8000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0132
Energy	3.7000e-004	3.3400e-003	2.8000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004						4.0267
Mobile	0.0633	0.5194	0.6909	1.7800e-003	49.6743	1.3700e-003	49.6757	4.9577	1.2900e-003	4.9590						182.4200
Total	**0.1644**	**0.5228**	**0.6995**	**1.8000e-003**	**49.6743**	**1.6400e-003**	**49.6760**	**4.9577**	**1.5600e-003**	**4.9593**						**186.4600**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1007	5.0000e-005	5.8000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0132
Energy	3.7000e-004	3.3400e-003	2.8000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004						4.0267
Mobile	0.0633	0.5194	0.6909	1.7800e-003	49.6743	1.3700e-003	49.6757	4.9577	1.2900e-003	4.9590						182.4200
Total	**0.1644**	**0.5228**	**0.6995**	**1.8000e-003**	**49.6743**	**1.6400e-003**	**49.6760**	**4.9577**	**1.5600e-003**	**4.9593**						**186.4600**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2018	7/2/2018	5	1	
2	Grading	Grading	7/3/2018	7/4/2018	5	2	
3	Building Construction	Building Construction	7/5/2018	11/21/2018	5	100	
4	Paving	Paving	11/22/2018	12/5/2018	5	10	
5	Architectural Coating	Architectural Coating	12/6/2018	12/19/2018	5	10	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.48

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 5,369; Non-Residential Outdoor: 1,790; Striped Parking Area: 1,272 (Architectural Coating – sqft)

OffRoad Equipment

Trinity Cannabis Facility - Bldg. A & Trans/Admin Bldgs. Construction - Imperial County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	10.00	4.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573						0.0000
Off-Road	0.7858	9.7572	4.2514	9.7600e-003		0.4180	0.4180		0.3846	0.3846						990.3596
Total	**0.7858**	**9.7572**	**4.2514**	**9.7600e-003**	**0.5303**	**0.4180**	**0.9483**	**0.0573**	**0.3846**	**0.4418**						**990.3596**

3.2 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0326	0.0274	0.2291	2.6000e-004	2.7124	2.0000e-004	2.7126	0.2751	1.9000e-004	0.2753						25.3671
Total	**0.0326**	**0.0274**	**0.2291**	**2.6000e-004**	**2.7124**	**2.0000e-004**	**2.7126**	**0.2751**	**1.9000e-004**	**0.2753**						**25.3671**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223						0.0000
Off-Road	0.2382	4.8716	5.8579	9.7600e-003		0.2405	0.2405		0.2405	0.2405						990.3596
Total	**0.2382**	**4.8716**	**5.8579**	**9.7600e-003**	**0.2068**	**0.2405**	**0.4473**	**0.0223**	**0.2405**	**0.2629**						**990.3596**

3.2 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0326	0.0274	0.2291	2.6000e-004	0.8488	2.0000e-004	0.8490	0.0890	1.9000e-004	0.0892						25.3671
Total	**0.0326**	**0.0274**	**0.2291**	**2.6000e-004**	**0.8488**	**2.0000e-004**	**0.8490**	**0.0890**	**1.9000e-004**	**0.0892**						**25.3671**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138						0.0000
Off-Road	1.0643	9.4295	7.7762	0.0120		0.6228	0.6228		0.5943	0.5943						1,174.9857
Total	**1.0643**	**9.4295**	**7.7762**	**0.0120**	**0.7528**	**0.6228**	**1.3755**	**0.4138**	**0.5943**	**1.0081**						**1,174.9857**

3.3 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0652	0.0548	0.4581	5.1000e-004	5.4248	4.1000e-004	5.4252	0.5502	3.7000e-004	0.5505						50.7341
Total	**0.0652**	**0.0548**	**0.4581**	**5.1000e-004**	**5.4248**	**4.1000e-004**	**5.4252**	**0.5502**	**3.7000e-004**	**0.5505**						**50.7341**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2936	0.0000	0.2936	0.1614	0.0000	0.1614						0.0000
Off-Road	0.2652	5.9644	7.9381	0.0120		0.4017	0.4017		0.4017	0.4017						1,174.9857
Total	**0.2652**	**5.9644**	**7.9381**	**0.0120**	**0.2936**	**0.4017**	**0.6953**	**0.1614**	**0.4017**	**0.5631**						**1,174.9857**

3.3 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0652	0.0548	0.4581	5.1000e-004	1.6975	4.1000e-004	1.6979	0.1780	3.7000e-004	0.1784						50.7341
Total	**0.0652**	**0.0548**	**0.4581**	**5.1000e-004**	**1.6975**	**4.1000e-004**	**1.6979**	**0.1780**	**3.7000e-004**	**0.1784**						**50.7341**

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0848	11.0316	7.7512	0.0114		0.7087	0.7087		0.6520	0.6520						1,155.4555
Total	**1.0848**	**11.0316**	**7.7512**	**0.0114**		**0.7087**	**0.7087**		**0.6520**	**0.6520**						**1,155.4555**

3.4 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0239	0.5521	0.1814	1.2700e-003	2.6515	4.7200e-003	2.6562	0.2706	4.5100e-003	0.2751						133.2704
Worker	0.0652	0.0548	0.4581	5.1000e-004	5.4248	4.1000e-004	5.4252	0.5502	3.7000e-004	0.5505						50.7341
Total	**0.0891**	**0.6070**	**0.6396**	**1.7800e-003**	**8.0762**	**5.1300e-003**	**8.0814**	**0.8208**	**4.8800e-003**	**0.8257**						**184.0045**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2793	6.1296	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855						1,155.4555
Total	**0.2793**	**6.1296**	**7.9624**	**0.0114**		**0.3855**	**0.3855**		**0.3855**	**0.3855**						**1,155.4555**

3.4 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0239	0.5521	0.1814	1.2700e-003	0.8338	4.7200e-003	0.8385	0.0891	4.5100e-003	0.0937						133.2704
Worker	0.0652	0.0548	0.4581	5.1000e-004	1.6975	4.1000e-004	1.6979	0.1780	3.7000e-004	0.1784						50.7341
Total	**0.0891**	**0.6070**	**0.6396**	**1.7800e-003**	**2.5313**	**5.1300e-003**	**2.5364**	**0.2672**	**4.8800e-003**	**0.2720**						**184.0045**

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9202	8.7447	7.2240	0.0113		0.5109	0.5109		0.4735	0.4735						1,077.6798
Paving	0.1258					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.0460**	**8.7447**	**7.2240**	**0.0113**		**0.5109**	**0.5109**		**0.4735**	**0.4735**						**1,077.6798**

3.5 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1173	0.0987	0.8247	9.2000e-004	9.7646	7.3000e-004	9.7653	0.9903	6.7000e-004	0.9910						91.3214
Total	**0.1173**	**0.0987**	**0.8247**	**9.2000e-004**	**9.7646**	**7.3000e-004**	**9.7653**	**0.9903**	**6.7000e-004**	**0.9910**						**91.3214**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2239	4.7579	6.9028	0.0113		0.2908	0.2908		0.2908	0.2908						1,077.6798
Paving	0.1258					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.3496**	**4.7579**	**6.9028**	**0.0113**		**0.2908**	**0.2908**		**0.2908**	**0.2908**						**1,077.6798**

3.5 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1173	0.0987	0.8247	9.2000e-004	3.0556	7.3000e-004	3.0563	0.3204	6.7000e-004	0.3211						91.3214
Total	**0.1173**	**0.0987**	**0.8247**	**9.2000e-004**	**3.0556**	**7.3000e-004**	**3.0563**	**0.3204**	**6.7000e-004**	**0.3211**						**91.3214**

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.8617					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506						282.1171
Total	**6.1603**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**						**282.1171**

3.6 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0130	0.0110	0.0916	1.0000e-004	1.0850	8.0000e-005	1.0850	0.1100	7.0000e-005	0.1101						10.1468
Total	**0.0130**	**0.0110**	**0.0916**	**1.0000e-004**	**1.0850**	**8.0000e-005**	**1.0850**	**0.1100**	**7.0000e-005**	**0.1101**						**10.1468**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.8617					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951						282.1171
Total	**5.9211**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**						**282.1171**

3.6 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0130	0.0110	0.0916	1.0000e-004	0.3395	8.0000e-005	0.3396	0.0356	7.0000e-005	0.0357						10.1468
Total	**0.0130**	**0.0110**	**0.0916**	**1.0000e-004**	**0.3395**	**8.0000e-005**	**0.3396**	**0.0356**	**7.0000e-005**	**0.0357**						**10.1468**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0633	0.5194	0.6909	1.7800e-003	49.6743	1.3700e-003	49.6757	4.9577	1.2900e-003	4.9590						182.4200
Unmitigated	0.0633	0.5194	0.6909	1.7800e-003	49.6743	1.3700e-003	49.6757	4.9577	1.2900e-003	4.9590						182.4200

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	24.44	8.91	2.61	37,933	37,933
Parking Lot	0.00	0.00	0.00		
Total	24.44	8.91	2.61	37,933	37,933

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	6.70	5.00	8.90	59.00	28.00	13.00	79	19	2
Parking Lot	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.509486	0.032430	0.160670	0.124446	0.017653	0.005129	0.019157	0.119824	0.003361	0.001189	0.005223	0.000739	0.000694
Parking Lot	0.509486	0.032430	0.160670	0.124446	0.017653	0.005129	0.019157	0.119824	0.003361	0.001189	0.005223	0.000739	0.000694

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.7000e-004	3.3400e-003	2.8000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004						4.0267
NaturalGas Unmitigated	3.7000e-004	3.3400e-003	2.8000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004						4.0267

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	34.025	3.7000e-004	3.3400e-003	2.8000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004						4.0267
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**3.7000e-004**	**3.3400e-003**	**2.8000e-003**	**2.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**						**4.0267**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	0.034025	3.7000e-004	3.3400e-003	2.8000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004						4.0267
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**3.7000e-004**	**3.3400e-003**	**2.8000e-003**	**2.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**						**4.0267**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1007	5.0000e-005	5.8000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0132
Unmitigated	0.1007	5.0000e-005	5.8000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0132

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0161					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.0841					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	5.4000e-004	5.0000e-005	5.8000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0132
Total	**0.1007**	**5.0000e-005**	**5.8000e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**						**0.0132**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0161					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.0841					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	5.4000e-004	5.0000e-005	5.8000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005						0.0132
Total	**0.1007**	**5.0000e-005**	**5.8000e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**						**0.0132**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Trinity Cannabis Facility - Bldgs. B & C Construction

Imperial County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	87.30	1000sqft	2.00	87,300.00	0
Parking Lot	133.00	Space	1.20	53,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	12
Climate Zone	10			**Operational Year**	2021
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1270.9	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total of 87,300 sf, 133 parking spaces

Construction Phase - Const schedules based on information provided. Assumes overall const period of approximately 6 months.

Off-road Equipment - Off-road equipment based on model defaults.

Trips and VMT - Trip gen assumes based on model defaults.

Grading - Disturbance based on model defaults.

Architectural Coating - Based on model defaults.

Vehicle Trips - Operational not included.

Construction Off-road Equipment Mitigation - Includes watering, onsite speed limit of 15 mph, T3 equipment.

On-road Fugitive Dust - Assumes 95% paved travel.

Road Dust - Assumes 95% paved travel.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	230.00	80.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00

tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblRoadDust	RoadPercentPave	50	95

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.7710	1.3341	1.0926	1.9300e-003	2.1061	0.0718	2.1779	0.2451	0.0673	0.3124						172.8867
Maximum	**0.7710**	**1.3341**	**1.0926**	**1.9300e-003**	**2.1061**	**0.0718**	**2.1779**	**0.2451**	**0.0673**	**0.3124**						**172.8867**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.6782	0.9023	1.1449	1.9300e-003	1.0561	0.0481	1.1042	0.1214	0.0481	0.1694						172.8866
Maximum	**0.6782**	**0.9023**	**1.1449**	**1.9300e-003**	**1.0561**	**0.0481**	**1.1042**	**0.1214**	**0.0481**	**0.1694**						**172.8866**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**12.03**	**32.36**	**-4.79**	**0.00**	**49.86**	**32.99**	**49.30**	**50.50**	**28.52**	**45.77**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2019**	**3-31-2019**	0.9444	0.5921
2	**4-1-2019**	**6-30-2019**	1.1203	0.9537
		Highest	1.1203	0.9537

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4064	2.0000e-005	2.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005						4.2000e-003
Energy	1.6300e-003	0.0149	0.0125	9.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003						507.0664
Mobile	0.2387	1.8215	2.4741	6.5100e-003	17.5605	4.6500e-003	17.5652	1.8072	4.3800e-003	1.8115						604.3695
Waste						0.0000	0.0000		0.0000	0.0000						54.4391
Water						0.0000	0.0000		0.0000	0.0000						179.3155
Total	**0.6467**	**1.8363**	**2.4886**	**6.6000e-003**	**17.5605**	**5.7900e-003**	**17.5663**	**1.8072**	**5.5200e-003**	**1.8127**						**1,345.1948**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4064	2.0000e-005	2.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005						4.2000e-003
Energy	1.6300e-003	0.0149	0.0125	9.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003						507.0664
Mobile	0.2387	1.8215	2.4741	6.5100e-003	17.5605	4.6500e-003	17.5652	1.8072	4.3800e-003	1.8115						604.3695
Waste						0.0000	0.0000		0.0000	0.0000						54.4391
Water						0.0000	0.0000		0.0000	0.0000						179.3155
Total	**0.6467**	**1.8363**	**2.4886**	**6.6000e-003**	**17.5605**	**5.7900e-003**	**17.5663**	**1.8072**	**5.5200e-003**	**1.8127**						**1,345.1948**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2019	1/7/2019	5	5	
2	Grading	Grading	1/8/2019	1/17/2019	5	8	
3	Building Construction	Building Construction	1/18/2019	5/9/2019	5	80	
4	Paving	Paving	5/10/2019	6/4/2019	5	18	
5	Architectural Coating	Architectural Coating	6/5/2019	6/28/2019	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 1.2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 130,950; Non-Residential Outdoor: 43,650; Striped Parking Area: 3,192 (Architectural Coating – sqft)

<u>OffRoad Equipment</u>

Trinity Cannabis Facility - Bldgs. B & C Construction - Imperial County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	59.00	23.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248						0.0000
Off-Road	0.0108	0.1139	0.0552	9.0000e-005		5.9800e-003	5.9800e-003		5.5000e-003	5.5000e-003						8.6097
Total	**0.0108**	**0.1139**	**0.0552**	**9.0000e-005**	**0.0452**	**5.9800e-003**	**0.0512**	**0.0248**	**5.5000e-003**	**0.0303**						**8.6097**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	2.8000e-004	2.2000e-004	2.0300e-003	0.0000	0.0236	0.0000	0.0236	2.4000e-003	0.0000	2.4000e-003						0.2165
Total	**2.8000e-004**	**2.2000e-004**	**2.0300e-003**	**0.0000**	**0.0236**	**0.0000**	**0.0236**	**2.4000e-003**	**0.0000**	**2.4000e-003**						**0.2165**

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					0.0176	0.0000	0.0176	9.6800e-003	0.0000	9.6800e-003						0.0000
Off-Road	2.3300e-003	0.0477	0.0574	9.0000e-005		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003						8.6097
Total	**2.3300e-003**	**0.0477**	**0.0574**	**9.0000e-005**	**0.0176**	**2.3700e-003**	**0.0200**	**9.6800e-003**	**2.3700e-003**	**0.0121**						**8.6097**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	2.8000e-004	2.2000e-004	2.0300e-003	0.0000	0.0119	0.0000	0.0119	1.2300e-003	0.0000	1.2300e-003						0.2165
Total	**2.8000e-004**	**2.2000e-004**	**2.0300e-003**	**0.0000**	**0.0119**	**0.0000**	**0.0119**	**1.2300e-003**	**0.0000**	**1.2300e-003**						**0.2165**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135						0.0000
Off-Road	0.0103	0.1134	0.0652	1.2000e-004		5.5900e-003	5.5900e-003		5.1400e-003	5.1400e-003						10.7412
Total	**0.0103**	**0.1134**	**0.0652**	**1.2000e-004**	**0.0262**	**5.5900e-003**	**0.0318**	**0.0135**	**5.1400e-003**	**0.0186**						**10.7412**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	3.7000e-004	2.9000e-004	2.7100e-003	0.0000	0.0315	0.0000	0.0315	3.1900e-003	0.0000	3.2000e-003						0.2887
Total	**3.7000e-004**	**2.9000e-004**	**2.7100e-003**	**0.0000**	**0.0315**	**0.0000**	**0.0315**	**3.1900e-003**	**0.0000**	**3.2000e-003**						**0.2887**

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	5.2500e-003	0.0000	5.2500e-003						0.0000
Off-Road	2.9100e-003	0.0594	0.0760	1.2000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003						10.7412
Total	**2.9100e-003**	**0.0594**	**0.0760**	**1.2000e-004**	**0.0102**	**3.0200e-003**	**0.0132**	**5.2500e-003**	**3.0200e-003**	**8.2700e-003**						**10.7412**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	3.7000e-004	2.9000e-004	2.7100e-003	0.0000	0.0159	0.0000	0.0159	1.6400e-003	0.0000	1.6400e-003						0.2887
Total	**3.7000e-004**	**2.9000e-004**	**2.7100e-003**	**0.0000**	**0.0159**	**0.0000**	**0.0159**	**1.6400e-003**	**0.0000**	**1.6400e-003**						**0.2887**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0945	0.8432	0.6866	1.0800e-003		0.0516	0.0516		0.0485	0.0485						94.6144
Total	**0.0945**	**0.8432**	**0.6866**	**1.0800e-003**		**0.0516**	**0.0516**		**0.0485**	**0.0485**						**94.6144**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	4.7400e-003	0.1188	0.0342	3.0000e-004	0.5900	9.2000e-004	0.5909	0.0603	8.8000e-004	0.0611						28.2053
Worker	0.0147	0.0115	0.1064	1.3000e-004	1.2385	9.0000e-005	1.2386	0.1257	9.0000e-005	0.1257						11.3563
Total	**0.0195**	**0.1303**	**0.1406**	**4.3000e-004**	**1.8285**	**1.0100e-003**	**1.8295**	**0.1859**	**9.7000e-004**	**0.1869**						**39.5616**

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	0.0270	0.5690	0.7150	1.0800e-003		0.0361	0.0361		0.0361	0.0361						94.6143
Total	**0.0270**	**0.5690**	**0.7150**	**1.0800e-003**		**0.0361**	**0.0361**		**0.0361**	**0.0361**						**94.6143**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	4.7400e-003	0.1188	0.0342	3.0000e-004	0.2986	9.2000e-004	0.2996	0.0312	8.8000e-004	0.0321						28.2053
Worker	0.0147	0.0115	0.1064	1.3000e-004	0.6255	9.0000e-005	0.6256	0.0645	9.0000e-005	0.0646						11.3563
Total	**0.0195**	**0.1303**	**0.1406**	**4.3000e-004**	**0.9241**	**1.0100e-003**	**0.9251**	**0.0957**	**9.7000e-004**	**0.0966**						**39.5616**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0114	0.1148	0.1108	1.7000e-004		6.4800e-003	6.4800e-003		5.9700e-003	5.9700e-003						15.1658
Paving	1.5700e-003					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.0130**	**0.1148**	**0.1108**	**1.7000e-004**		**6.4800e-003**	**6.4800e-003**		**5.9700e-003**	**5.9700e-003**						**15.1658**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	1.1200e-003	8.8000e-004	8.1200e-003	1.0000e-005	0.0945	1.0000e-005	0.0945	9.5800e-003	1.0000e-005	9.5900e-003						0.8662
Total	**1.1200e-003**	**8.8000e-004**	**8.1200e-003**	**1.0000e-005**	**0.0945**	**1.0000e-005**	**0.0945**	**9.5800e-003**	**1.0000e-005**	**9.5900e-003**						**0.8662**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9500e-003	0.0818	0.1218	1.7000e-004		4.7200e-003	4.7200e-003		4.7200e-003	4.7200e-003						15.1658
Paving	1.5700e-003					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**5.5200e-003**	**0.0818**	**0.1218**	**1.7000e-004**		**4.7200e-003**	**4.7200e-003**		**4.7200e-003**	**4.7200e-003**						**15.1658**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	1.1200e-003	8.8000e-004	8.1200e-003	1.0000e-005	0.0477	1.0000e-005	0.0477	4.9200e-003	1.0000e-005	4.9300e-003						0.8662
Total	**1.1200e-003**	**8.8000e-004**	**8.1200e-003**	**1.0000e-005**	**0.0477**	**1.0000e-005**	**0.0477**	**4.9200e-003**	**1.0000e-005**	**4.9300e-003**						**0.8662**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6181					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	2.4000e-003	0.0165	0.0166	3.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003						2.3028
Total	**0.6205**	**0.0165**	**0.0166**	**3.0000e-005**		**1.1600e-003**	**1.1600e-003**		**1.1600e-003**	**1.1600e-003**						**2.3028**

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	6.7000e-004	5.3000e-004	4.8700e-003	1.0000e-005	0.0567	0.0000	0.0567	5.7500e-003	0.0000	5.7500e-003						0.5197
Total	**6.7000e-004**	**5.3000e-004**	**4.8700e-003**	**1.0000e-005**	**0.0567**	**0.0000**	**0.0567**	**5.7500e-003**	**0.0000**	**5.7500e-003**						**0.5197**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6181					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	5.3000e-004	0.0122	0.0165	3.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004						2.3028
Total	**0.6186**	**0.0122**	**0.0165**	**3.0000e-005**		**8.6000e-004**	**8.6000e-004**		**8.6000e-004**	**8.6000e-004**						**2.3028**

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	6.7000e-004	5.3000e-004	4.8700e-003	1.0000e-005	0.0286	0.0000	0.0286	2.9500e-003	0.0000	2.9600e-003						0.5197
Total	**6.7000e-004**	**5.3000e-004**	**4.8700e-003**	**1.0000e-005**	**0.0286**	**0.0000**	**0.0286**	**2.9500e-003**	**0.0000**	**2.9600e-003**						**0.5197**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2387	1.8215	2.4741	6.5100e-003	17.5605	4.6500e-003	17.5652	1.8072	4.3800e-003	1.8115						604.3695
Unmitigated	0.2387	1.8215	2.4741	6.5100e-003	17.5605	4.6500e-003	17.5652	1.8072	4.3800e-003	1.8115						604.3695

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	596.26	217.38	63.73	925,264	925,264
Parking Lot	0.00	0.00	0.00		
Total	596.26	217.38	63.73	925,264	925,264

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	6.70	5.00	8.90	59.00	28.00	13.00	79	19	2
Parking Lot	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.509486	0.032430	0.160670	0.124446	0.017653	0.005129	0.019157	0.119824	0.003361	0.001189	0.005223	0.000739	0.000694
Parking Lot	0.509486	0.032430	0.160670	0.124446	0.017653	0.005129	0.019157	0.119824	0.003361	0.001189	0.005223	0.000739	0.000694

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000						490.8048
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						490.8048
NaturalGas Mitigated	1.6300e-003	0.0149	0.0125	9.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003						16.2616
NaturalGas Unmitigated	1.6300e-003	0.0149	0.0125	9.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003						16.2616

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					
Industrial Park	302931	1.6300e-003	0.0149	0.0125	9.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003						16.2616
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**1.6300e-003**	**0.0149**	**0.0125**	**9.0000e-005**		**1.1300e-003**	**1.1300e-003**		**1.1300e-003**	**1.1300e-003**						**16.2616**

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					
Industrial Park	302931	1.6300e-003	0.0149	0.0125	9.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003						16.2616
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**1.6300e-003**	**0.0149**	**0.0125**	**9.0000e-005**		**1.1300e-003**	**1.1300e-003**		**1.1300e-003**	**1.1300e-003**						**16.2616**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	831096				480.0497
Parking Lot	18620				10.7551
Total					**490.8048**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	831096				480.0497
Parking Lot	18620				10.7551
Total					**490.8048**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4064	2.0000e-005	2.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005						4.2000e-003
Unmitigated	0.4064	2.0000e-005	2.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005						4.2000e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0618					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.3444					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	1.9000e-004	2.0000e-005	2.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005						4.2000e-003
Total	**0.4064**	**2.0000e-005**	**2.0300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**						**4.2000e-003**

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	0.0618					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.3444					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	1.9000e-004	2.0000e-005	2.0300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005						4.2000e-003
Total	**0.4064**	**2.0000e-005**	**2.0300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**						**4.2000e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				179.3155
Unmitigated				179.3155

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	20.1881 / 0				179.3155
Parking Lot	0 / 0				0.0000
Total					**179.3155**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	20.1881 / 0				179.3155
Parking Lot	0 / 0				0.0000
Total					**179.3155**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				54.4391
Unmitigated				54.4391

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	108.25				54.4391
Parking Lot	0				0.0000
Total					**54.4391**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	108.25				54.4391
Parking Lot	0				0.0000
Total					**54.4391**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Trinity Cannabis Facility - Bldgs. B & C Construction

Imperial County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	87.30	1000sqft	2.00	87,300.00	0
Parking Lot	133.00	Space	1.20	53,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	12
Climate Zone	10			**Operational Year**	2021
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1270.9	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Trinity Cannabis Facility - Bldgs. B & C Construction - Imperial County, Summer

Project Characteristics -

Land Use - Total of 87,300 sf, 133 parking spaces

Construction Phase - Const schedules based on information provided. Assumes overall const period of approximately 6 months.

Off-road Equipment - Off-road equipment based on model defaults.

Trips and VMT - Trip gen assumes based on model defaults.

Grading - Disturbance based on model defaults.

Architectural Coating - Based on model defaults.

Vehicle Trips - Operational not included.

Construction Off-road Equipment Mitigation - Includes watering, onsite speed limit of 15 mph, T3 equipment.

On-road Fugitive Dust - Assumes 95% paved travel.

Road Dust - Assumes 95% paved travel.

Table Name	Column Name	Default Value	New Value
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	230.00	80.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00

tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblRoadDust	RoadPercentPave	50	95

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	69.0286	45.6578	23.0574	0.0391	47.2520	2.3911	48.5670	10.9210	2.1998	13.1208						3,901.7423
Maximum	**69.0286**	**45.6578**	**23.0574**	**0.0391**	**47.2520**	**2.3911**	**48.5670**	**10.9210**	**2.1998**	**13.1208**						**3,901.7423**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	68.8215	19.1507	23.9544	0.0391	23.8744	0.9469	24.8031	4.3809	0.9468	5.3277						3,901.7423
Maximum	**68.8215**	**19.1507**	**23.9544**	**0.0391**	**23.8744**	**0.9469**	**24.8031**	**4.3809**	**0.9468**	**5.3277**						**3,901.7423**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.30**	**58.06**	**-3.89**	**0.00**	**49.47**	**60.40**	**48.93**	**59.89**	**56.96**	**59.40**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.2278	2.1000e-004	0.0226	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						0.0514
Energy	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003						98.2212
Mobile	2.0183	12.6827	20.3914	0.0485	123.4585	0.0322	123.4907	12.7075	0.0304	12.7379						4,961.2058
Total	**4.2551**	**12.7643**	**20.4823**	**0.0490**	**123.4585**	**0.0385**	**123.4970**	**12.7075**	**0.0367**	**12.7442**						**5,059.4783**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.2278	2.1000e-004	0.0226	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						0.0514
Energy	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003						98.2212
Mobile	2.0183	12.6827	20.3914	0.0485	123.4585	0.0322	123.4907	12.7075	0.0304	12.7379						4,961.2058
Total	**4.2551**	**12.7643**	**20.4823**	**0.0490**	**123.4585**	**0.0385**	**123.4970**	**12.7075**	**0.0367**	**12.7442**						**5,059.4783**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2019	1/7/2019	5	5	
2	Grading	Grading	1/8/2019	1/17/2019	5	8	
3	Building Construction	Building Construction	1/18/2019	5/9/2019	5	80	
4	Paving	Paving	5/10/2019	6/4/2019	5	18	
5	Architectural Coating	Architectural Coating	6/5/2019	6/28/2019	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 1.2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 130,950; Non-Residential Outdoor: 43,650; Striped Parking Area: 3,192 (Architectural Coating – sqft)

OffRoad Equipment

Trinity Cannabis Facility - Bldgs. B & C Construction - Imperial County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	59.00	23.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307						0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991						3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**						**3,796.2445**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1349	0.0851	0.9944	1.0700e-003	9.7646	7.1000e-004	9.7653	0.9903	6.5000e-004	0.9910						105.4978
Total	**0.1349**	**0.0851**	**0.9944**	**1.0700e-003**	**9.7646**	**7.1000e-004**	**9.7653**	**0.9903**	**6.5000e-004**	**0.9910**						**105.4978**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730						0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462						3,796.2445
Total	**0.9312**	**19.0656**	**22.9600**	**0.0380**	**7.0458**	**0.9462**	**7.9920**	**3.8730**	**0.9462**	**4.8191**						**3,796.2445**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1349	0.0851	0.9944	1.0700e-003	4.9301	7.1000e-004	4.9308	0.5079	6.5000e-004	0.5085						105.4978
Total	**0.1349**	**0.0851**	**0.9944**	**1.0700e-003**	**4.9301**	**7.1000e-004**	**4.9308**	**0.5079**	**6.5000e-004**	**0.5085**						**105.4978**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675						0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856						2,960.0361
Total	**2.5805**	**28.3480**	**16.2934**	**0.0297**	**6.5523**	**1.3974**	**7.9497**	**3.3675**	**1.2856**	**4.6531**						**2,960.0361**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1124	0.0709	0.8286	8.9000e-004	8.1372	5.9000e-004	8.1378	0.8253	5.4000e-004	0.8258						87.9148
Total	**0.1124**	**0.0709**	**0.8286**	**8.9000e-004**	**8.1372**	**5.9000e-004**	**8.1378**	**0.8253**	**5.4000e-004**	**0.8258**						**87.9148**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133						0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555						2,960.0361
Total	**0.7263**	**14.8397**	**18.9906**	**0.0297**	**2.5554**	**0.7555**	**3.3110**	**1.3133**	**0.7555**	**2.0689**						**2,960.0361**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1124	0.0709	0.8286	8.9000e-004	4.1084	5.9000e-004	4.1090	0.4232	5.4000e-004	0.4238						87.9148
Total	**0.1124**	**0.0709**	**0.8286**	**8.9000e-004**	**4.1084**	**5.9000e-004**	**4.1090**	**0.4232**	**5.4000e-004**	**0.4238**						**87.9148**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127						2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**						**2,607.3635**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.1186	2.8781	0.8148	7.5400e-003	15.2459	0.0228	15.2687	1.5561	0.0218	1.5779						789.0115
Worker	0.4422	0.2788	3.2593	3.5000e-003	32.0062	2.3200e-003	32.0085	3.2460	2.1400e-003	3.2481						345.7983
Total	**0.5609**	**3.1569**	**4.0741**	**0.0110**	**47.2520**	**0.0251**	**47.2771**	**4.8021**	**0.0240**	**4.8261**						**1,134.8098**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036						2,607.3635
Total	**0.6739**	**14.2261**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**						**2,607.3635**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.1186	2.8781	0.8148	7.5400e-003	7.7145	0.0228	7.7374	0.8046	0.0218	0.8264						789.0115
Worker	0.4422	0.2788	3.2593	3.5000e-003	16.1599	2.3200e-003	16.1622	1.6647	2.1400e-003	1.6669						345.7983
Total	**0.5609**	**3.1569**	**4.0741**	**0.0110**	**23.8744**	**0.0251**	**23.8995**	**2.4693**	**0.0240**	**2.4933**						**1,134.8098**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637						1,857.4966
Paving	0.1747					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.4426**	**12.7604**	**12.3130**	**0.0189**		**0.7196**	**0.7196**		**0.6637**	**0.6637**						**1,857.4966**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1499	0.0945	1.1048	1.1900e-003	10.8495	7.9000e-004	10.8503	1.1003	7.3000e-004	1.1011						117.2198
Total	**0.1499**	**0.0945**	**1.1048**	**1.1900e-003**	**10.8495**	**7.9000e-004**	**10.8503**	**1.1003**	**7.3000e-004**	**1.1011**						**117.2198**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4389	9.0888	13.5323	0.0189		0.5246	0.5246		0.5246	0.5246						1,857.4966
Paving	0.1747					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.6136**	**9.0888**	**13.5323**	**0.0189**		**0.5246**	**0.5246**		**0.5246**	**0.5246**						**1,857.4966**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1499	0.0945	1.1048	1.1900e-003	5.4779	7.9000e-004	5.4787	0.5643	7.3000e-004	0.5650						117.2198
Total	**0.1499**	**0.0945**	**1.1048**	**1.1900e-003**	**5.4779**	**7.9000e-004**	**5.4787**	**0.5643**	**7.3000e-004**	**0.5650**						**117.2198**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	68.6722					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288						282.0423
Total	**68.9386**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**						**282.0423**

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0900	0.0567	0.6629	7.1000e-004	6.5097	4.7000e-004	6.5102	0.6602	4.4000e-004	0.6606						70.3319
Total	**0.0900**	**0.0567**	**0.6629**	**7.1000e-004**	**6.5097**	**4.7000e-004**	**6.5102**	**0.6602**	**4.4000e-004**	**0.6606**						**70.3319**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	68.6722					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951						282.0423
Total	**68.7316**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**						**282.0423**

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0900	0.0567	0.6629	7.1000e-004	3.2868	4.7000e-004	3.2872	0.3386	4.4000e-004	0.3390						70.3319
Total	**0.0900**	**0.0567**	**0.6629**	**7.1000e-004**	**3.2868**	**4.7000e-004**	**3.2872**	**0.3386**	**4.4000e-004**	**0.3390**						**70.3319**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0183	12.6827	20.3914	0.0485	123.4585	0.0322	123.4907	12.7075	0.0304	12.7379						4,961.2058
Unmitigated	2.0183	12.6827	20.3914	0.0485	123.4585	0.0322	123.4907	12.7075	0.0304	12.7379						4,961.2058

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	596.26	217.38	63.73	925,264	925,264
Parking Lot	0.00	0.00	0.00		
Total	596.26	217.38	63.73	925,264	925,264

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	6.70	5.00	8.90	59.00	28.00	13.00	79	19	2
Parking Lot	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.509486	0.032430	0.160670	0.124446	0.017653	0.005129	0.019157	0.119824	0.003361	0.001189	0.005223	0.000739	0.000694
Parking Lot	0.509486	0.032430	0.160670	0.124446	0.017653	0.005129	0.019157	0.119824	0.003361	0.001189	0.005223	0.000739	0.000694

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003						98.2212
NaturalGas Unmitigated	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003						98.2212

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	829.948	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003						98.2212
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**8.9500e-003**	**0.0814**	**0.0684**	**4.9000e-004**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**						**98.2212**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	0.829948	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003						98.2212
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**8.9500e-003**	**0.0814**	**0.0684**	**4.9000e-004**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**						**98.2212**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.2278	2.1000e-004	0.0226	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						0.0514
Unmitigated	2.2278	2.1000e-004	0.0226	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						0.0514

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3387					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	1.8871					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	2.1100e-003	2.1000e-004	0.0226	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						0.0514
Total	**2.2278**	**2.1000e-004**	**0.0226**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**						**0.0514**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3387					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	1.8871					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	2.1100e-003	2.1000e-004	0.0226	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						0.0514
Total	**2.2278**	**2.1000e-004**	**0.0226**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**						**0.0514**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Trinity Cannabis Facility - Bldgs. B & C Construction

Imperial County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	87.30	1000sqft	2.00	87,300.00	0
Parking Lot	133.00	Space	1.20	53,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	12
Climate Zone	10			**Operational Year**	2021
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1270.9	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Trinity Cannabis Facility - Bldgs. B & C Construction - Imperial County, Winter

Project Characteristics -

Land Use - Total of 87,300 sf, 133 parking spaces

Construction Phase - Const schedules based on information provided. Assumes overall const period of approximately 6 months.

Off-road Equipment - Off-road equipment based on model defaults.

Trips and VMT - Trip gen assumes based on model defaults.

Grading - Disturbance based on model defaults.

Architectural Coating - Based on model defaults.

Vehicle Trips - Operational not included.

Construction Off-road Equipment Mitigation - Includes watering, onsite speed limit of 15 mph, T3 equipment.

On-road Fugitive Dust - Assumes 95% paved travel.

Road Dust - Assumes 95% paved travel.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3

Trinity Cannabis Facility - Bldgs. B & C Construction - Imperial County, Winter

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
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	230.00	80.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00

tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblRoadDust	RoadPercentPave	50	95

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	69.0107	45.6621	22.8147	0.0389	47.2520	2.3911	48.5673	10.9210	2.1998	13.1208						3,884.7349
Maximum	**69.0107**	**45.6621**	**22.8147**	**0.0389**	**47.2520**	**2.3911**	**48.5673**	**10.9210**	**2.1998**	**13.1208**						**3,884.7349**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	68.8037	19.1550	23.7118	0.0389	23.8744	0.9469	24.8034	4.3809	0.9468	5.3277						3,884.7349
Maximum	**68.8037**	**19.1550**	**23.7118**	**0.0389**	**23.8744**	**0.9469**	**24.8034**	**4.3809**	**0.9468**	**5.3277**						**3,884.7349**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.30**	**58.05**	**-3.93**	**0.00**	**49.47**	**60.40**	**48.93**	**59.89**	**56.96**	**59.40**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.2278	2.1000e-004	0.0226	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						0.0514
Energy	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003						98.2212
Mobile	1.5449	12.6687	16.8536	0.0435	123.4585	0.0333	123.4918	12.7075	0.0315	12.7390						4,449.6421
Total	**3.7817**	**12.7503**	**16.9445**	**0.0439**	**123.4585**	**0.0396**	**123.4981**	**12.7075**	**0.0377**	**12.7452**						**4,547.9147**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.2278	2.1000e-004	0.0226	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						0.0514
Energy	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003						98.2212
Mobile	1.5449	12.6687	16.8536	0.0435	123.4585	0.0333	123.4918	12.7075	0.0315	12.7390						4,449.6421
Total	**3.7817**	**12.7503**	**16.9445**	**0.0439**	**123.4585**	**0.0396**	**123.4981**	**12.7075**	**0.0377**	**12.7452**						**4,547.9147**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2019	1/7/2019	5	5	
2	Grading	Grading	1/8/2019	1/17/2019	5	8	
3	Building Construction	Building Construction	1/18/2019	5/9/2019	5	80	
4	Paving	Paving	5/10/2019	6/4/2019	5	18	
5	Architectural Coating	Architectural Coating	6/5/2019	6/28/2019	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 1.2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 130,950; Non-Residential Outdoor: 43,650; Striped Parking Area: 3,192 (Architectural Coating – sqft)

OffRoad Equipment

Trinity Cannabis Facility - Bldgs. B & C Construction - Imperial County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	59.00	23.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307						0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991						3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**						**3,796.2445**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1082	0.0893	0.7517	8.9000e-004	9.7646	7.1000e-004	9.7653	0.9903	6.5000e-004	0.9910						88.4904
Total	**0.1082**	**0.0893**	**0.7517**	**8.9000e-004**	**9.7646**	**7.1000e-004**	**9.7653**	**0.9903**	**6.5000e-004**	**0.9910**						**88.4904**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730						0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462						3,796.2445
Total	**0.9312**	**19.0656**	**22.9600**	**0.0380**	**7.0458**	**0.9462**	**7.9920**	**3.8730**	**0.9462**	**4.8191**						**3,796.2445**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1082	0.0893	0.7517	8.9000e-004	4.9301	7.1000e-004	4.9308	0.5079	6.5000e-004	0.5085						88.4904
Total	**0.1082**	**0.0893**	**0.7517**	**8.9000e-004**	**4.9301**	**7.1000e-004**	**4.9308**	**0.5079**	**6.5000e-004**	**0.5085**						**88.4904**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675						0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856						2,960.0361
Total	**2.5805**	**28.3480**	**16.2934**	**0.0297**	**6.5523**	**1.3974**	**7.9497**	**3.3675**	**1.2856**	**4.6531**						**2,960.0361**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0902	0.0744	0.6264	7.5000e-004	8.1372	5.9000e-004	8.1378	0.8253	5.4000e-004	0.8258						73.7420
Total	**0.0902**	**0.0744**	**0.6264**	**7.5000e-004**	**8.1372**	**5.9000e-004**	**8.1378**	**0.8253**	**5.4000e-004**	**0.8258**						**73.7420**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133						0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555						2,960.0361
Total	**0.7263**	**14.8397**	**18.9906**	**0.0297**	**2.5554**	**0.7555**	**3.3110**	**1.3133**	**0.7555**	**2.0689**						**2,960.0361**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0902	0.0744	0.6264	7.5000e-004	4.1084	5.9000e-004	4.1090	0.4232	5.4000e-004	0.4238						73.7420
Total	**0.0902**	**0.0744**	**0.6264**	**7.5000e-004**	**4.1084**	**5.9000e-004**	**4.1090**	**0.4232**	**5.4000e-004**	**0.4238**						**73.7420**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127						2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**						**2,607.3635**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.1224	2.9486	0.9208	7.2700e-003	15.2459	0.0231	15.2690	1.5561	0.0221	1.5782						761.0755
Worker	0.3547	0.2928	2.4640	2.9300e-003	32.0062	2.3200e-003	32.0085	3.2460	2.1400e-003	3.2481						290.0517
Total	**0.4770**	**3.2414**	**3.3848**	**0.0102**	**47.2520**	**0.0254**	**47.2774**	**4.8021**	**0.0243**	**4.8263**						**1,051.1272**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036						2,607.3635
Total	**0.6739**	**14.2261**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**						**2,607.3635**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.1224	2.9486	0.9208	7.2700e-003	7.7145	0.0231	7.7377	0.8046	0.0221	0.8267						761.0755
Worker	0.3547	0.2928	2.4640	2.9300e-003	16.1599	2.3200e-003	16.1622	1.6647	2.1400e-003	1.6669						290.0517
Total	**0.4770**	**3.2414**	**3.3848**	**0.0102**	**23.8744**	**0.0254**	**23.8998**	**2.4693**	**0.0243**	**2.4935**						**1,051.1272**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637						1,857.4966
Paving	0.1747					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.4426**	**12.7604**	**12.3130**	**0.0189**		**0.7196**	**0.7196**		**0.6637**	**0.6637**						**1,857.4966**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1202	0.0993	0.8352	9.9000e-004	10.8495	7.9000e-004	10.8503	1.1003	7.3000e-004	1.1011						98.3226
Total	**0.1202**	**0.0993**	**0.8352**	**9.9000e-004**	**10.8495**	**7.9000e-004**	**10.8503**	**1.1003**	**7.3000e-004**	**1.1011**						**98.3226**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4389	9.0888	13.5323	0.0189		0.5246	0.5246		0.5246	0.5246						1,857.4966
Paving	0.1747					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.6136**	**9.0888**	**13.5323**	**0.0189**		**0.5246**	**0.5246**		**0.5246**	**0.5246**						**1,857.4966**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1202	0.0993	0.8352	9.9000e-004	5.4779	7.9000e-004	5.4787	0.5643	7.3000e-004	0.5650						98.3226
Total	**0.1202**	**0.0993**	**0.8352**	**9.9000e-004**	**5.4779**	**7.9000e-004**	**5.4787**	**0.5643**	**7.3000e-004**	**0.5650**						**98.3226**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	68.6722					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288						282.0423
Total	**68.9386**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**						**282.0423**

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0721	0.0596	0.5011	6.0000e-004	6.5097	4.7000e-004	6.5102	0.6602	4.4000e-004	0.6606						58.9936
Total	**0.0721**	**0.0596**	**0.5011**	**6.0000e-004**	**6.5097**	**4.7000e-004**	**6.5102**	**0.6602**	**4.4000e-004**	**0.6606**						**58.9936**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	68.6722					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951						282.0423
Total	**68.7316**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**						**282.0423**

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0721	0.0596	0.5011	6.0000e-004	3.2868	4.7000e-004	3.2872	0.3386	4.4000e-004	0.3390						58.9936
Total	**0.0721**	**0.0596**	**0.5011**	**6.0000e-004**	**3.2868**	**4.7000e-004**	**3.2872**	**0.3386**	**4.4000e-004**	**0.3390**						**58.9936**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.5449	12.6687	16.8536	0.0435	123.4585	0.0333	123.4918	12.7075	0.0315	12.7390						4,449.6421
Unmitigated	1.5449	12.6687	16.8536	0.0435	123.4585	0.0333	123.4918	12.7075	0.0315	12.7390						4,449.6421

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	596.26	217.38	63.73	925,264	925,264
Parking Lot	0.00	0.00	0.00		
Total	596.26	217.38	63.73	925,264	925,264

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	6.70	5.00	8.90	59.00	28.00	13.00	79	19	2
Parking Lot	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.509486	0.032430	0.160670	0.124446	0.017653	0.005129	0.019157	0.119824	0.003361	0.001189	0.005223	0.000739	0.000694
Parking Lot	0.509486	0.032430	0.160670	0.124446	0.017653	0.005129	0.019157	0.119824	0.003361	0.001189	0.005223	0.000739	0.000694

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003						98.2212
NaturalGas Unmitigated	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003						98.2212

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	829.948	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003						98.2212
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**8.9500e-003**	**0.0814**	**0.0684**	**4.9000e-004**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**						**98.2212**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	0.829948	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003						98.2212
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**8.9500e-003**	**0.0814**	**0.0684**	**4.9000e-004**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**						**98.2212**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.2278	2.1000e-004	0.0226	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						0.0514
Unmitigated	2.2278	2.1000e-004	0.0226	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						0.0514

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3387					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	1.8871					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	2.1100e-003	2.1000e-004	0.0226	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						0.0514
Total	**2.2278**	**2.1000e-004**	**0.0226**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**						**0.0514**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3387					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	1.8871					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	2.1100e-003	2.1000e-004	0.0226	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						0.0514
Total	**2.2278**	**2.1000e-004**	**0.0226**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**						**0.0514**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Trinity Cannabis Facility - Bldg. D Construction

Imperial County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	43.75	1000sqft	1.00	43,750.00	0
Parking Lot	62.00	Space	0.56	24,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	12
Climate Zone	15			**Operational Year**	2022
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1270.9	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Trinity Cannabis Facility - Bldg. D Construction - Imperial County, Annual

Project Characteristics -

Land Use - Total of 43.750, 62 parking spaces

Construction Phase - Const schedules based on information provided. Assumes overall const period of 6 months.

Off-road Equipment - Off-road equipment based on model defaults.

Trips and VMT - Trip gen assumes based on model defaults.

Grading - Disturbance based on model defaults.

Architectural Coating -

Vehicle Trips - Operational not included.

Construction Off-road Equipment Mitigation - Includes watering, onsite speed limit of 15 mph, T3 equipment.

On-road Fugitive Dust - Assumes 95% paved travel.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	200.00	100.00
tblConstructionPhase	PhaseEndDate	1/13/2021	8/26/2020
tblConstructionPhase	PhaseEndDate	1/27/2021	9/9/2020
tblConstructionPhase	PhaseEndDate	2/10/2021	9/23/2020
tblConstructionPhase	PhaseStartDate	1/14/2021	8/27/2020
tblConstructionPhase	PhaseStartDate	1/28/2021	9/10/2020
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00

tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.4329	0.9096	0.8165	1.4900e-003	1.1917	0.0453	1.2371	0.1276	0.0436	0.1712						126.4714
Maximum	**0.4329**	**0.9096**	**0.8165**	**1.4900e-003**	**1.1917**	**0.0453**	**1.2371**	**0.1276**	**0.0436**	**0.1712**						**126.4714**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.3567	0.7370	0.8413	1.4900e-003	0.3749	0.0404	0.4153	0.0421	0.0404	0.0825						126.4713
Maximum	**0.3567**	**0.7370**	**0.8413**	**1.4900e-003**	**0.3749**	**0.0404**	**0.4153**	**0.0421**	**0.0404**	**0.0825**						**126.4713**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**17.61**	**18.97**	**-3.03**	**0.00**	**68.54**	**10.83**	**66.43**	**67.01**	**7.34**	**51.81**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-1-2020**	**6-30-2020**	0.5964	0.4472
2	**7-1-2020**	**9-30-2020**	0.7426	0.6449
		Highest	0.7426	0.6449

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2035	1.0000e-005	9.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						2.0100e-003
Energy	8.2000e-004	7.4400e-003	6.2500e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004						253.7378
Mobile	0.1126	0.8633	1.1592	3.2000e-003	86.3816	2.0800e-003	86.3836	8.6212	1.9600e-003	8.6231						297.5449
Waste						0.0000	0.0000		0.0000	0.0000						27.2824
Water						0.0000	0.0000		0.0000	0.0000						89.8632
Total	**0.3169**	**0.8708**	**1.1664**	**3.2400e-003**	**86.3816**	**2.6500e-003**	**86.3842**	**8.6212**	**2.5300e-003**	**8.6237**						**668.4303**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2035	1.0000e-005	9.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						2.0100e-003
Energy	8.2000e-004	7.4400e-003	6.2500e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004						253.7378
Mobile	0.1126	0.8633	1.1592	3.2000e-003	86.3816	2.0800e-003	86.3836	8.6212	1.9600e-003	8.6231						297.5449
Waste						0.0000	0.0000		0.0000	0.0000						27.2824
Water						0.0000	0.0000		0.0000	0.0000						89.8632
Total	**0.3169**	**0.8708**	**1.1664**	**3.2400e-003**	**86.3816**	**2.6500e-003**	**86.3842**	**8.6212**	**2.5300e-003**	**8.6237**						**668.4303**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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

Trinity Cannabis Facility - Bldg. D Construction - Imperial County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/1/2020	4/2/2020	5	2	
2	Grading	Grading	4/3/2020	4/8/2020	5	4	
3	Building Construction	Building Construction	4/9/2020	8/26/2020	5	100	
4	Paving	Paving	8/27/2020	9/9/2020	5	10	
5	Architectural Coating	Architectural Coating	9/10/2020	9/23/2020	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.56

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 65,625; Non-Residential Outdoor: 21,875; Striped Parking Area: 1,488 (Architectural Coating – sqft)

<u>OffRoad Equipment</u>

Trinity Cannabis Facility - Bldg. D Construction - Imperial County, Annual

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	29.00	11.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003						0.0000
Off-Road	1.6300e-003	0.0184	7.7100e-003	2.0000e-005		8.2000e-004	8.2000e-004		7.6000e-004	7.6000e-004						1.5249
Total	**1.6300e-003**	**0.0184**	**7.7100e-003**	**2.0000e-005**	**5.8000e-003**	**8.2000e-004**	**6.6200e-003**	**2.9500e-003**	**7.6000e-004**	**3.7100e-003**						**1.5249**

3.2 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	5.0000e-005	4.0000e-005	3.3000e-004	0.0000	4.2000e-003	0.0000	4.2000e-003	4.3000e-004	0.0000	4.3000e-004						0.0373
Total	**5.0000e-005**	**4.0000e-005**	**3.3000e-004**	**0.0000**	**4.2000e-003**	**0.0000**	**4.2000e-003**	**4.3000e-004**	**0.0000**	**4.3000e-004**						**0.0373**

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					2.2600e-003	0.0000	2.2600e-003	1.1500e-003	0.0000	1.1500e-003						0.0000
Off-Road	4.2000e-004	8.4100e-003	9.8200e-003	2.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004						1.5249
Total	**4.2000e-004**	**8.4100e-003**	**9.8200e-003**	**2.0000e-005**	**2.2600e-003**	**3.7000e-004**	**2.6300e-003**	**1.1500e-003**	**3.7000e-004**	**1.5200e-003**						**1.5249**

3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	5.0000e-005	4.0000e-005	3.3000e-004	0.0000	1.3100e-003	0.0000	1.3100e-003	1.4000e-004	0.0000	1.4000e-004						0.0373
Total	**5.0000e-005**	**4.0000e-005**	**3.3000e-004**	**0.0000**	**1.3100e-003**	**0.0000**	**1.3100e-003**	**1.4000e-004**	**0.0000**	**1.4000e-004**						**0.0373**

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003						0.0000
Off-Road	2.7000e-003	0.0302	0.0129	3.0000e-005		1.3700e-003	1.3700e-003		1.2600e-003	1.2600e-003						2.4980
Total	**2.7000e-003**	**0.0302**	**0.0129**	**3.0000e-005**	**9.8300e-003**	**1.3700e-003**	**0.0112**	**5.0500e-003**	**1.2600e-003**	**6.3100e-003**						**2.4980**

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	9.0000e-005	7.0000e-005	6.6000e-004	0.0000	8.4000e-003	0.0000	8.4000e-003	8.5000e-004	0.0000	8.5000e-004						0.0746
Total	**9.0000e-005**	**7.0000e-005**	**6.6000e-004**	**0.0000**	**8.4000e-003**	**0.0000**	**8.4000e-003**	**8.5000e-004**	**0.0000**	**8.5000e-004**						**0.0746**

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					3.8300e-003	0.0000	3.8300e-003	1.9700e-003	0.0000	1.9700e-003						0.0000
Off-Road	6.9000e-004	0.0138	0.0162	3.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						2.4980
Total	**6.9000e-004**	**0.0138**	**0.0162**	**3.0000e-005**	**3.8300e-003**	**6.2000e-004**	**4.4500e-003**	**1.9700e-003**	**6.2000e-004**	**2.5900e-003**						**2.4980**

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	9.0000e-005	7.0000e-005	6.6000e-004	0.0000	2.6300e-003	0.0000	2.6300e-003	2.8000e-004	0.0000	2.8000e-004						0.0746
Total	**9.0000e-005**	**7.0000e-005**	**6.6000e-004**	**0.0000**	**2.6300e-003**	**0.0000**	**2.6300e-003**	**2.8000e-004**	**0.0000**	**2.8000e-004**						**0.0746**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1015	0.7394	0.6594	1.1000e-003		0.0398	0.0398		0.0384	0.0384						91.1923
Total	**0.1015**	**0.7394**	**0.6594**	**1.1000e-003**		**0.0398**	**0.0398**		**0.0384**	**0.0384**						**91.1923**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	2.4600e-003	0.0640	0.0181	1.8000e-004	0.3527	3.8000e-004	0.3531	0.0360	3.7000e-004	0.0364						16.7364
Worker	8.4200e-003	6.4500e-003	0.0599	8.0000e-005	0.7609	6.0000e-005	0.7610	0.0772	5.0000e-005	0.0773						6.7568
Total	**0.0109**	**0.0704**	**0.0780**	**2.6000e-004**	**1.1136**	**4.4000e-004**	**1.1141**	**0.1132**	**4.2000e-004**	**0.1137**						**23.4932**

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	0.0320	0.6038	0.6739	1.1000e-003		0.0366	0.0366		0.0366	0.0366						91.1922
Total	**0.0320**	**0.6038**	**0.6739**	**1.1000e-003**		**0.0366**	**0.0366**		**0.0366**	**0.0366**						**91.1922**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	2.4600e-003	0.0640	0.0181	1.8000e-004	0.1110	3.8000e-004	0.1114	0.0119	3.7000e-004	0.0123						16.7364
Worker	8.4200e-003	6.4500e-003	0.0599	8.0000e-005	0.2383	6.0000e-005	0.2383	0.0250	5.0000e-005	0.0251						6.7568
Total	**0.0109**	**0.0704**	**0.0780**	**2.6000e-004**	**0.3492**	**4.4000e-004**	**0.3497**	**0.0369**	**4.2000e-004**	**0.0373**						**23.4932**

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2000e-003	0.0423	0.0444	7.0000e-005		2.3500e-003	2.3500e-003		2.1600e-003	2.1600e-003						5.9295
Paving	7.3000e-004					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**4.9300e-003**	**0.0423**	**0.0444**	**7.0000e-005**		**2.3500e-003**	**2.3500e-003**		**2.1600e-003**	**2.1600e-003**						**5.9295**

3.5 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	3.8000e-004	2.9000e-004	2.6900e-003	0.0000	0.0341	0.0000	0.0341	3.4600e-003	0.0000	3.4600e-003						0.3029
Total	**3.8000e-004**	**2.9000e-004**	**2.6900e-003**	**0.0000**	**0.0341**	**0.0000**	**0.0341**	**3.4600e-003**	**0.0000**	**3.4600e-003**						**0.3029**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6000e-003	0.0332	0.0493	7.0000e-005		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003						5.9295
Paving	7.3000e-004					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**2.3300e-003**	**0.0332**	**0.0493**	**7.0000e-005**		**1.9300e-003**	**1.9300e-003**		**1.9300e-003**	**1.9300e-003**						**5.9295**

3.5 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	3.8000e-004	2.9000e-004	2.6900e-003	0.0000	0.0107	0.0000	0.0107	1.1200e-003	0.0000	1.1200e-003						0.3029
Total	**3.8000e-004**	**2.9000e-004**	**2.6900e-003**	**0.0000**	**0.0107**	**0.0000**	**0.0107**	**1.1200e-003**	**0.0000**	**1.1200e-003**						**0.3029**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3093					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	1.2100e-003	8.4200e-003	9.1600e-003	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004						1.2791
Total	**0.3106**	**8.4200e-003**	**9.1600e-003**	**1.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.5000e-004**	**5.5000e-004**						**1.2791**

3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	1.7000e-004	1.3000e-004	1.2400e-003	0.0000	0.0157	0.0000	0.0157	1.6000e-003	0.0000	1.6000e-003						0.1398
Total	**1.7000e-004**	**1.3000e-004**	**1.2400e-003**	**0.0000**	**0.0157**	**0.0000**	**0.0157**	**1.6000e-003**	**0.0000**	**1.6000e-003**						**0.1398**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3093					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	3.0000e-004	6.7800e-003	9.1600e-003	1.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004						1.2791
Total	**0.3096**	**6.7800e-003**	**9.1600e-003**	**1.0000e-005**		**4.8000e-004**	**4.8000e-004**		**4.8000e-004**	**4.8000e-004**						**1.2791**

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	1.7000e-004	1.3000e-004	1.2400e-003	0.0000	4.9300e-003	0.0000	4.9300e-003	5.2000e-004	0.0000	5.2000e-004						0.1398
Total	**1.7000e-004**	**1.3000e-004**	**1.2400e-003**	**0.0000**	**4.9300e-003**	**0.0000**	**4.9300e-003**	**5.2000e-004**	**0.0000**	**5.2000e-004**						**0.1398**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1126	0.8633	1.1592	3.2000e-003	86.3816	2.0800e-003	86.3836	8.6212	1.9600e-003	8.6231						297.5449
Unmitigated	0.1126	0.8633	1.1592	3.2000e-003	86.3816	2.0800e-003	86.3836	8.6212	1.9600e-003	8.6231						297.5449

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	298.81	108.94	31.94	463,692	463,692
Parking Lot	0.00	0.00	0.00		
Total	298.81	108.94	31.94	463,692	463,692

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	6.70	5.00	8.90	59.00	28.00	13.00	79	19	2
Parking Lot	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.514862	0.031726	0.160627	0.119887	0.016529	0.004969	0.019101	0.120993	0.003465	0.001214	0.005236	0.000734	0.000658
Parking Lot	0.514862	0.031726	0.160627	0.119887	0.016529	0.004969	0.019101	0.120993	0.003465	0.001214	0.005236	0.000734	0.000658

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000						245.5884
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						245.5884
NaturalGas Mitigated	8.2000e-004	7.4400e-003	6.2500e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004						8.1494
NaturalGas Unmitigated	8.2000e-004	7.4400e-003	6.2500e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004						8.1494

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					
Industrial Park	151813	8.2000e-004	7.4400e-003	6.2500e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004						8.1494
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**8.2000e-004**	**7.4400e-003**	**6.2500e-003**	**4.0000e-005**		**5.7000e-004**	**5.7000e-004**		**5.7000e-004**	**5.7000e-004**						**8.1494**

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					
Industrial Park	151813	8.2000e-004	7.4400e-003	6.2500e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004						8.1494
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**8.2000e-004**	**7.4400e-003**	**6.2500e-003**	**4.0000e-005**		**5.7000e-004**	**5.7000e-004**		**5.7000e-004**	**5.7000e-004**						**8.1494**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	416500				240.5747
Parking Lot	8680				5.0137
Total					**245.5884**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	416500				240.5747
Parking Lot	8680				5.0137
Total					**245.5884**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2035	1.0000e-005	9.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						2.0100e-003
Unmitigated	0.2035	1.0000e-005	9.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						2.0100e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0309					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.1725					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	9.0000e-005	1.0000e-005	9.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						2.0100e-003
Total	**0.2035**	**1.0000e-005**	**9.7000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**						**2.0100e-003**

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	0.0309					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.1725					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	9.0000e-005	1.0000e-005	9.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						2.0100e-003
Total	**0.2035**	**1.0000e-005**	**9.7000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**						**2.0100e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				89.8632
Unmitigated				89.8632

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	10.1172 / 0				89.8632
Parking Lot	0 / 0				0.0000
Total					**89.8632**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	10.1172 / 0				89.8632
Parking Lot	0 / 0				0.0000
Total					**89.8632**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				27.2824
Unmitigated				27.2824

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	54.25				27.2824
Parking Lot	0				0.0000
Total					**27.2824**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	54.25				27.2824
Parking Lot	0				0.0000
Total					**27.2824**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Trinity Cannabis Facility - Bldg. D Construction

Imperial County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	43.75	1000sqft	1.00	43,750.00	0
Parking Lot	62.00	Space	0.56	24,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	12
Climate Zone	15			**Operational Year**	2022
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1270.9	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Trinity Cannabis Facility - Bldg. D Construction - Imperial County, Summer

Project Characteristics -

Land Use - Total of 43.750, 62 parking spaces

Construction Phase - Const schedules based on information provided. Assumes overall const period of 6 months.

Off-road Equipment - Off-road equipment based on model defaults.

Trips and VMT - Trip gen assumes based on model defaults.

Grading - Disturbance based on model defaults.

Architectural Coating -

Vehicle Trips - Operational not included.

Construction Off-road Equipment Mitigation - Includes watering, onsite speed limit of 15 mph, T3 equipment.

On-road Fugitive Dust - Assumes 95% paved travel.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

Trinity Cannabis Facility - Bldg. D Construction - Imperial County, Summer

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	200.00	100.00
tblConstructionPhase	PhaseEndDate	1/13/2021	8/26/2020
tblConstructionPhase	PhaseEndDate	1/27/2021	9/9/2020
tblConstructionPhase	PhaseEndDate	2/10/2021	9/23/2020
tblConstructionPhase	PhaseStartDate	1/14/2021	8/27/2020
tblConstructionPhase	PhaseStartDate	1/28/2021	9/10/2020
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00

tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	62.1529	18.3809	15.0006	0.0273	23.0233	0.8213	23.8280	3.3938	0.7771	4.1494						2,549.6216
Maximum	**62.1529**	**18.3809**	**15.0006**	**0.0273**	**23.0233**	**0.8213**	**23.8280**	**3.3938**	**0.7771**	**4.1494**						**2,549.6216**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	61.9701	13.4478	15.2911	0.0273	7.2158	0.7402	7.9560	1.2944	0.7398	1.6693						2,549.6216
Maximum	**61.9701**	**13.4478**	**15.2911**	**0.0273**	**7.2158**	**0.7402**	**7.9560**	**1.2944**	**0.7398**	**1.6693**						**2,549.6216**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.29**	**26.84**	**-1.94**	**0.00**	**68.66**	**9.87**	**66.61**	**61.86**	**4.80**	**59.77**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1155	1.0000e-004	0.0108	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						0.0247
Energy	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003						49.2231
Mobile	0.9519	6.0239	9.5499	0.0239	607.2233	0.0144	607.2377	60.6035	0.0136	60.6171						2,441.2172
Total	**2.0720**	**6.0648**	**9.5950**	**0.0241**	**607.2233**	**0.0175**	**607.2409**	**60.6035**	**0.0167**	**60.6202**						**2,490.4649**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1155	1.0000e-004	0.0108	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						0.0247
Energy	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003						49.2231
Mobile	0.9519	6.0239	9.5499	0.0239	607.2233	0.0144	607.2377	60.6035	0.0136	60.6171						2,441.2172
Total	**2.0720**	**6.0648**	**9.5950**	**0.0241**	**607.2233**	**0.0175**	**607.2409**	**60.6035**	**0.0167**	**60.6202**						**2,490.4649**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/1/2020	4/2/2020	5	2	
2	Grading	Grading	4/3/2020	4/8/2020	5	4	
3	Building Construction	Building Construction	4/9/2020	8/26/2020	5	100	
4	Paving	Paving	8/27/2020	9/9/2020	5	10	
5	Architectural Coating	Architectural Coating	9/10/2020	9/23/2020	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.56

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 65,625; Non-Residential Outdoor: 21,875; Striped Parking Area: 1,488 (Architectural Coating – sqft)

OffRoad Equipment

Trinity Cannabis Facility - Bldg. D Construction - Imperial County, Summer

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	29.00	11.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537						0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553						1,680.8937
Total	**1.6299**	**18.3464**	**7.7093**	**0.0172**	**5.7996**	**0.8210**	**6.6205**	**2.9537**	**0.7553**	**3.7090**						**1,680.8937**

3.2 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0557	0.0345	0.4051	4.6000e-004	4.3398	3.0000e-004	4.3401	0.4401	2.8000e-004	0.4404						45.4084
Total	**0.0557**	**0.0345**	**0.4051**	**4.6000e-004**	**4.3398**	**3.0000e-004**	**4.3401**	**0.4401**	**2.8000e-004**	**0.4404**						**45.4084**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.2618	0.0000	2.2618	1.1519	0.0000	1.1519						0.0000
Off-Road	0.4212	8.4089	9.8221	0.0172		0.3747	0.3747		0.3747	0.3747						1,680.8937
Total	**0.4212**	**8.4089**	**9.8221**	**0.0172**	**2.2618**	**0.3747**	**2.6365**	**1.1519**	**0.3747**	**1.5267**						**1,680.8937**

3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0557	0.0345	0.4051	4.6000e-004	1.3580	3.0000e-004	1.3583	0.1424	2.8000e-004	0.1427						45.4084
Total	**0.0557**	**0.0345**	**0.4051**	**4.6000e-004**	**1.3580**	**3.0000e-004**	**1.3583**	**0.1424**	**2.8000e-004**	**0.1427**						**45.4084**

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256						0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296						1,376.7609
Total	**1.3498**	**15.0854**	**6.4543**	**0.0141**	**4.9143**	**0.6844**	**5.5986**	**2.5256**	**0.6296**	**3.1552**						**1,376.7609**

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0557	0.0345	0.4051	4.6000e-004	4.3398	3.0000e-004	4.3401	0.4401	2.8000e-004	0.4404						45.4084
Total	**0.0557**	**0.0345**	**0.4051**	**4.6000e-004**	**4.3398**	**3.0000e-004**	**4.3401**	**0.4401**	**2.8000e-004**	**0.4404**						**45.4084**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.9166	0.0000	1.9166	0.9850	0.0000	0.9850						0.0000
Off-Road	0.3450	6.9025	8.0841	0.0141		0.3106	0.3106		0.3106	0.3106						1,376.7609
Total	**0.3450**	**6.9025**	**8.0841**	**0.0141**	**1.9166**	**0.3106**	**2.2272**	**0.9850**	**0.3106**	**1.2956**						**1,376.7609**

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0557	0.0345	0.4051	4.6000e-004	1.3580	3.0000e-004	1.3583	0.1424	2.8000e-004	0.1427						45.4084
Total	**0.0557**	**0.0345**	**0.4051**	**4.6000e-004**	**1.3580**	**3.0000e-004**	**1.3583**	**0.1424**	**2.8000e-004**	**0.1427**						**45.4084**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688						2,010.4467
Total	**2.0305**	**14.7882**	**13.1881**	**0.0220**		**0.7960**	**0.7960**		**0.7688**	**0.7688**						**2,010.4467**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0492	1.2461	0.3439	3.5800e-003	7.2915	7.6200e-003	7.2991	0.7442	7.2900e-003	0.7515						374.5695
Worker	0.2019	0.1250	1.4686	1.6600e-003	15.7318	1.1000e-003	15.7329	1.5955	1.0200e-003	1.5965						164.6054
Total	**0.2511**	**1.3711**	**1.8126**	**5.2400e-003**	**23.0233**	**8.7200e-003**	**23.0321**	**2.3397**	**8.3100e-003**	**2.3480**						**539.1748**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6407	12.0767	13.4786	0.0220		0.7315	0.7315		0.7315	0.7315						2,010.4467
Total	**0.6407**	**12.0767**	**13.4786**	**0.0220**		**0.7315**	**0.7315**		**0.7315**	**0.7315**						**2,010.4467**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0492	1.2461	0.3439	3.5800e-003	2.2929	7.6200e-003	2.3005	0.2451	7.2900e-003	0.2524						374.5695
Worker	0.2019	0.1250	1.4686	1.6600e-003	4.9228	1.1000e-003	4.9239	0.5163	1.0200e-003	0.5173						164.6054
Total	**0.2511**	**1.3711**	**1.8126**	**5.2400e-003**	**7.2158**	**8.7200e-003**	**7.2245**	**0.7614**	**8.3100e-003**	**0.7697**						**539.1748**

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328						1,307.2246
Paving	0.1467					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.9869**	**8.4514**	**8.8758**	**0.0135**		**0.4695**	**0.4695**		**0.4328**	**0.4328**						**1,307.2246**

3.5 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0905	0.0560	0.6584	7.5000e-004	7.0522	4.9000e-004	7.0527	0.7152	4.6000e-004	0.7157						73.7886
Total	**0.0905**	**0.0560**	**0.6584**	**7.5000e-004**	**7.0522**	**4.9000e-004**	**7.0527**	**0.7152**	**4.6000e-004**	**0.7157**						**73.7886**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3195	6.6399	9.8512	0.0135		0.3864	0.3864		0.3864	0.3864						1,307.2246
Paving	0.1467					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.4662**	**6.6399**	**9.8512**	**0.0135**		**0.3864**	**0.3864**		**0.3864**	**0.3864**						**1,307.2246**

3.5 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0905	0.0560	0.6584	7.5000e-004	2.2068	4.9000e-004	2.2073	0.2314	4.6000e-004	0.2319						73.7886
Total	**0.0905**	**0.0560**	**0.6584**	**7.5000e-004**	**2.2068**	**4.9000e-004**	**2.2073**	**0.2314**	**4.6000e-004**	**0.2319**						**73.7886**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.8689					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109						281.9928
Total	**62.1111**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**						**281.9928**

3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0418	0.0259	0.3039	3.4000e-004	3.2549	2.3000e-004	3.2551	0.3301	2.1000e-004	0.3303						34.0563
Total	**0.0418**	**0.0259**	**0.3039**	**3.4000e-004**	**3.2549**	**2.3000e-004**	**3.2551**	**0.3301**	**2.1000e-004**	**0.3303**						**34.0563**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.8689					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951						281.9928
Total	**61.9283**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**						**281.9928**

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0418	0.0259	0.3039	3.4000e-004	1.0185	2.3000e-004	1.0188	0.1068	2.1000e-004	0.1070						34.0563
Total	**0.0418**	**0.0259**	**0.3039**	**3.4000e-004**	**1.0185**	**2.3000e-004**	**1.0188**	**0.1068**	**2.1000e-004**	**0.1070**						**34.0563**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9519	6.0239	9.5499	0.0239	607.2233	0.0144	607.2377	60.6035	0.0136	60.6171						2,441.2172
Unmitigated	0.9519	6.0239	9.5499	0.0239	607.2233	0.0144	607.2377	60.6035	0.0136	60.6171						2,441.2172

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	298.81	108.94	31.94	463,692	463,692
Parking Lot	0.00	0.00	0.00		
Total	298.81	108.94	31.94	463,692	463,692

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	6.70	5.00	8.90	59.00	28.00	13.00	79	19	2
Parking Lot	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.514862	0.031726	0.160627	0.119887	0.016529	0.004969	0.019101	0.120993	0.003465	0.001214	0.005236	0.000734	0.000658
Parking Lot	0.514862	0.031726	0.160627	0.119887	0.016529	0.004969	0.019101	0.120993	0.003465	0.001214	0.005236	0.000734	0.000658

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003						49.2231
NaturalGas Unmitigated	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003						49.2231

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	415.925	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003						49.2231
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**4.4900e-003**	**0.0408**	**0.0343**	**2.4000e-004**		**3.1000e-003**	**3.1000e-003**		**3.1000e-003**	**3.1000e-003**						**49.2231**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	0.415925	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003						49.2231
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**4.4900e-003**	**0.0408**	**0.0343**	**2.4000e-004**		**3.1000e-003**	**3.1000e-003**		**3.1000e-003**	**3.1000e-003**						**49.2231**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1155	1.0000e-004	0.0108	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						0.0247
Unmitigated	1.1155	1.0000e-004	0.0108	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						0.0247

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1695					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.9450					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	1.0100e-003	1.0000e-004	0.0108	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						0.0247
Total	**1.1155**	**1.0000e-004**	**0.0108**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**						**0.0247**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1695					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.9450					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	1.0100e-003	1.0000e-004	0.0108	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						0.0247
Total	**1.1155**	**1.0000e-004**	**0.0108**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**						**0.0247**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Trinity Cannabis Facility - Bldg. D Construction

Imperial County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	43.75	1000sqft	1.00	43,750.00	0
Parking Lot	62.00	Space	0.56	24,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	12
Climate Zone	15			**Operational Year**	2022
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1270.9	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Trinity Cannabis Facility - Bldg. D Construction - Imperial County, Winter

Project Characteristics -

Land Use - Total of 43.750, 62 parking spaces

Construction Phase - Const schedules based on information provided. Assumes overall const period of 6 months.

Off-road Equipment - Off-road equipment based on model defaults.

Trips and VMT - Trip gen assumes based on model defaults.

Grading - Disturbance based on model defaults.

Architectural Coating -

Vehicle Trips - Operational not included.

Construction Off-road Equipment Mitigation - Includes watering, onsite speed limit of 15 mph, T3 equipment.

On-road Fugitive Dust - Assumes 95% paved travel.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

Trinity Cannabis Facility - Bldg. D Construction - Imperial County, Winter

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	200.00	100.00
tblConstructionPhase	PhaseEndDate	1/13/2021	8/26/2020
tblConstructionPhase	PhaseEndDate	1/27/2021	9/9/2020
tblConstructionPhase	PhaseEndDate	2/10/2021	9/23/2020
tblConstructionPhase	PhaseStartDate	1/14/2021	8/27/2020
tblConstructionPhase	PhaseStartDate	1/28/2021	9/10/2020
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00

tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	62.1447	18.3826	14.6889	0.0269	23.0233	0.8213	23.8281	3.3938	0.7772	4.1494						2,509.7475
Maximum	**62.1447**	**18.3826**	**14.6889**	**0.0269**	**23.0233**	**0.8213**	**23.8281**	**3.3938**	**0.7772**	**4.1494**						**2,509.7475**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	61.9619	13.4771	14.9794	0.0269	7.2158	0.7403	7.9561	1.2944	0.7399	1.6693						2,509.7475
Maximum	**61.9619**	**13.4771**	**14.9794**	**0.0269**	**7.2158**	**0.7403**	**7.9561**	**1.2944**	**0.7399**	**1.6693**						**2,509.7475**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.29**	**26.69**	**-1.98**	**0.00**	**68.66**	**9.85**	**66.61**	**61.86**	**4.80**	**59.77**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1155	1.0000e-004	0.0108	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						0.0247
Energy	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003						49.2231
Mobile	0.7276	6.0006	7.8930	0.0214	607.2233	0.0149	607.2383	60.6035	0.0140	60.6176						2,190.8652
Total	**1.8476**	**6.0415**	**7.9380**	**0.0216**	**607.2233**	**0.0181**	**607.2414**	**60.6035**	**0.0172**	**60.6207**						**2,240.1130**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1155	1.0000e-004	0.0108	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						0.0247
Energy	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003						49.2231
Mobile	0.7276	6.0006	7.8930	0.0214	607.2233	0.0149	607.2383	60.6035	0.0140	60.6176						2,190.8652
Total	**1.8476**	**6.0415**	**7.9380**	**0.0216**	**607.2233**	**0.0181**	**607.2414**	**60.6035**	**0.0172**	**60.6207**						**2,240.1130**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/1/2020	4/2/2020	5	2	
2	Grading	Grading	4/3/2020	4/8/2020	5	4	
3	Building Construction	Building Construction	4/9/2020	8/26/2020	5	100	
4	Paving	Paving	8/27/2020	9/9/2020	5	10	
5	Architectural Coating	Architectural Coating	9/10/2020	9/23/2020	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.56

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 65,625; Non-Residential Outdoor: 21,875; Striped Parking Area: 1,488 (Architectural Coating – sqft)

OffRoad Equipment

Trinity Cannabis Facility - Bldg. D Construction - Imperial County, Winter

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	29.00	11.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537						0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553						1,680.8937
Total	**1.6299**	**18.3464**	**7.7093**	**0.0172**	**5.7996**	**0.8210**	**6.6205**	**2.9537**	**0.7553**	**3.7090**						**1,680.8937**

3.2 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0448	0.0362	0.3060	3.8000e-004	4.3398	3.0000e-004	4.3401	0.4401	2.8000e-004	0.4404						38.0834
Total	**0.0448**	**0.0362**	**0.3060**	**3.8000e-004**	**4.3398**	**3.0000e-004**	**4.3401**	**0.4401**	**2.8000e-004**	**0.4404**						**38.0834**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.2618	0.0000	2.2618	1.1519	0.0000	1.1519						0.0000
Off-Road	0.4212	8.4089	9.8221	0.0172		0.3747	0.3747		0.3747	0.3747						1,680.8937
Total	**0.4212**	**8.4089**	**9.8221**	**0.0172**	**2.2618**	**0.3747**	**2.6365**	**1.1519**	**0.3747**	**1.5267**						**1,680.8937**

3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0448	0.0362	0.3060	3.8000e-004	1.3580	3.0000e-004	1.3583	0.1424	2.8000e-004	0.1427						38.0834
Total	**0.0448**	**0.0362**	**0.3060**	**3.8000e-004**	**1.3580**	**3.0000e-004**	**1.3583**	**0.1424**	**2.8000e-004**	**0.1427**						**38.0834**

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256						0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296						1,376.7609
Total	**1.3498**	**15.0854**	**6.4543**	**0.0141**	**4.9143**	**0.6844**	**5.5986**	**2.5256**	**0.6296**	**3.1552**						**1,376.7609**

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0448	0.0362	0.3060	3.8000e-004	4.3398	3.0000e-004	4.3401	0.4401	2.8000e-004	0.4404						38.0834
Total	**0.0448**	**0.0362**	**0.3060**	**3.8000e-004**	**4.3398**	**3.0000e-004**	**4.3401**	**0.4401**	**2.8000e-004**	**0.4404**						**38.0834**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.9166	0.0000	1.9166	0.9850	0.0000	0.9850						0.0000
Off-Road	0.3450	6.9025	8.0841	0.0141		0.3106	0.3106		0.3106	0.3106						1,376.7609
Total	**0.3450**	**6.9025**	**8.0841**	**0.0141**	**1.9166**	**0.3106**	**2.2272**	**0.9850**	**0.3106**	**1.2956**						**1,376.7609**

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0448	0.0362	0.3060	3.8000e-004	1.3580	3.0000e-004	1.3583	0.1424	2.8000e-004	0.1427						38.0834
Total	**0.0448**	**0.0362**	**0.3060**	**3.8000e-004**	**1.3580**	**3.0000e-004**	**1.3583**	**0.1424**	**2.8000e-004**	**0.1427**						**38.0834**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688						2,010.4467
Total	**2.0305**	**14.7882**	**13.1881**	**0.0220**		**0.7960**	**0.7960**		**0.7688**	**0.7688**						**2,010.4467**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0509	1.2692	0.3918	3.4500e-003	7.2915	7.7300e-003	7.2992	0.7442	7.3900e-003	0.7516						361.2484
Worker	0.1623	0.1311	1.1091	1.3900e-003	15.7318	1.1000e-003	15.7329	1.5955	1.0200e-003	1.5965						138.0523
Total	**0.2132**	**1.4004**	**1.5009**	**4.8400e-003**	**23.0233**	**8.8300e-003**	**23.0322**	**2.3397**	**8.4100e-003**	**2.3481**						**499.3008**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6407	12.0767	13.4786	0.0220		0.7315	0.7315		0.7315	0.7315						2,010.4467
Total	**0.6407**	**12.0767**	**13.4786**	**0.0220**		**0.7315**	**0.7315**		**0.7315**	**0.7315**						**2,010.4467**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0509	1.2692	0.3918	3.4500e-003	2.2929	7.7300e-003	2.3006	0.2451	7.3900e-003	0.2525						361.2484
Worker	0.1623	0.1311	1.1091	1.3900e-003	4.9228	1.1000e-003	4.9239	0.5163	1.0200e-003	0.5173						138.0523
Total	**0.2132**	**1.4004**	**1.5009**	**4.8400e-003**	**7.2158**	**8.8300e-003**	**7.2246**	**0.7614**	**8.4100e-003**	**0.7698**						**499.3008**

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328						1,307.2246
Paving	0.1467					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.9869**	**8.4514**	**8.8758**	**0.0135**		**0.4695**	**0.4695**		**0.4328**	**0.4328**						**1,307.2246**

3.5 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0728	0.0588	0.4972	6.2000e-004	7.0522	4.9000e-004	7.0527	0.7152	4.6000e-004	0.7157						61.8855
Total	**0.0728**	**0.0588**	**0.4972**	**6.2000e-004**	**7.0522**	**4.9000e-004**	**7.0527**	**0.7152**	**4.6000e-004**	**0.7157**						**61.8855**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3195	6.6399	9.8512	0.0135		0.3864	0.3864		0.3864	0.3864						1,307.2246
Paving	0.1467					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.4662**	**6.6399**	**9.8512**	**0.0135**		**0.3864**	**0.3864**		**0.3864**	**0.3864**						**1,307.2246**

3.5 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0728	0.0588	0.4972	6.2000e-004	2.2068	4.9000e-004	2.2073	0.2314	4.6000e-004	0.2319						61.8855
Total	**0.0728**	**0.0588**	**0.4972**	**6.2000e-004**	**2.2068**	**4.9000e-004**	**2.2073**	**0.2314**	**4.6000e-004**	**0.2319**						**61.8855**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.8689					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109						281.9928
Total	**62.1111**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**						**281.9928**

3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0336	0.0271	0.2295	2.9000e-004	3.2549	2.3000e-004	3.2551	0.3301	2.1000e-004	0.3303						28.5626
Total	**0.0336**	**0.0271**	**0.2295**	**2.9000e-004**	**3.2549**	**2.3000e-004**	**3.2551**	**0.3301**	**2.1000e-004**	**0.3303**						**28.5626**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.8689					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951						281.9928
Total	**61.9283**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**						**281.9928**

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0336	0.0271	0.2295	2.9000e-004	1.0185	2.3000e-004	1.0188	0.1068	2.1000e-004	0.1070						28.5626
Total	**0.0336**	**0.0271**	**0.2295**	**2.9000e-004**	**1.0185**	**2.3000e-004**	**1.0188**	**0.1068**	**2.1000e-004**	**0.1070**						**28.5626**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7276	6.0006	7.8930	0.0214	607.2233	0.0149	607.2383	60.6035	0.0140	60.6176						2,190.8652
Unmitigated	0.7276	6.0006	7.8930	0.0214	607.2233	0.0149	607.2383	60.6035	0.0140	60.6176						2,190.8652

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	298.81	108.94	31.94	463,692	463,692
Parking Lot	0.00	0.00	0.00		
Total	298.81	108.94	31.94	463,692	463,692

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Industrial Park	6.70	5.00	8.90	59.00	28.00	13.00	79	19	2
Parking Lot	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.514862	0.031726	0.160627	0.119887	0.016529	0.004969	0.019101	0.120993	0.003465	0.001214	0.005236	0.000734	0.000658
Parking Lot	0.514862	0.031726	0.160627	0.119887	0.016529	0.004969	0.019101	0.120993	0.003465	0.001214	0.005236	0.000734	0.000658

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003						49.2231
NaturalGas Unmitigated	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003						49.2231

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	415.925	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003						49.2231
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**4.4900e-003**	**0.0408**	**0.0343**	**2.4000e-004**		**3.1000e-003**	**3.1000e-003**		**3.1000e-003**	**3.1000e-003**						**49.2231**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	0.415925	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003						49.2231
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**4.4900e-003**	**0.0408**	**0.0343**	**2.4000e-004**		**3.1000e-003**	**3.1000e-003**		**3.1000e-003**	**3.1000e-003**						**49.2231**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1155	1.0000e-004	0.0108	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						0.0247
Unmitigated	1.1155	1.0000e-004	0.0108	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						0.0247

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1695					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.9450					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	1.0100e-003	1.0000e-004	0.0108	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						0.0247
Total	**1.1155**	**1.0000e-004**	**0.0108**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**						**0.0247**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1695					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.9450					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	1.0100e-003	1.0000e-004	0.0108	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005						0.0247
Total	**1.1155**	**1.0000e-004**	**0.0108**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**						**0.0247**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

CALEEMOD

OPERATIONAL EMISSIONS MODELING

ENERGY USAGE CALC

			58698267	kwh/yr
			167740	sf
	kw	%	349.936	kwh/yr/sf
Cultivation (Non-T24):	1557.64	0.541	189.3154	kwh/yr/sf
Non-Cultivation (T-24):	123.81	0.043	15.04725	kwh/yr/sf
Lighting:	1197.74	0.416	145.5734	kwh/yr/sf
			349.936	
			58698267	

Trinity Cannabis Facility - Operational

Imperial County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	167.74	1000sqft	3.85	167,740.00	0
Parking Lot	263.00	Space	2.37	105,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	12
Climate Zone	15			**Operational Year**	2020
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1054.27	**CH4 Intensity (lb/MWhr)**	0.024	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Includes RPS adjustment

Land Use - 167.74 ksf building sqft, 263 parking spaces

Construction Phase - const not included

Vehicle Trips - Trip gen (1.88) from traffic analysis

Consumer Products - Consumer products based on defaults

Area Coating - Arch coating based on model defaults

Landscape Equipment - Based on model defaults

Energy Use - Energy use assumes a total of 58,698,267 kWh/yr. Cultivation Non-Title 24 (54.1%): 189.32 Kwh/sf/yr. Non-Cultivation T-24 (4.3%): 15.05 KWh/sf/yr. Lighting (41.6%): 145.57 KWh/sf/yr. Nat gas based on model defaults.

Water And Wastewater - 8030000 gal/yr water use

Solid Waste - Based on model defaults

Energy Mitigation - Installation of high-efficiency lighting (16% reduction)

Water Mitigation - Installation of low-flow fixtures

Waste Mitigation - Includes 50% reduction per current statewide rate

Stationary Sources - Emergency Generators and Fire Pumps - Assumes 4 emergency gen sets, 456 bhp, 8 hrs/day, 100 hrs/yr per permit limitations

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	1.17	145.57
tblEnergyUse	NT24E	0.82	189.32
tblEnergyUse	T24E	0.37	15.05
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.024
tblProjectCharacteristics	CO2IntensityFactor	1270.9	1054.27
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	456.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	8.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	100.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	4.00
tblVehicleTrips	ST_TR	1.68	1.88
tblVehicleTrips	SU_TR	1.68	1.88
tblVehicleTrips	WD_TR	1.68	1.88
tblWater	IndoorWaterUseRate	38,789,875.00	8,030,000.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.0382	0.3840	0.2305	4.0000e-004	0.7797	0.0194	0.7991	0.0779	0.0181	0.0960						36.1108
Maximum	**0.0382**	**0.3840**	**0.2305**	**4.0000e-004**	**0.7797**	**0.0194**	**0.7991**	**0.0779**	**0.0181**	**0.0960**						**36.1108**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.0382	0.3840	0.2305	4.0000e-004	4.7000e-004	0.0194	0.0199	1.3000e-004	0.0181	0.0182						36.1108
Maximum	**0.0382**	**0.3840**	**0.2305**	**4.0000e-004**	**4.7000e-004**	**0.0194**	**0.0199**	**1.3000e-004**	**0.0181**	**0.0182**						**36.1108**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**99.94**	**0.00**	**97.51**	**99.83**	**0.00**	**81.04**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**5-16-2018**	**8-15-2018**	0.4224	0.4224
		Highest	0.4224	0.4224

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7811	4.0000e-005	3.9800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005						8.2100e-003
Energy	1.8400e-003	0.0167	0.0140	1.0000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003						28,161.9178
Mobile	0.1867	1.4369	2.1416	5.4600e-003	151.6518	4.9400e-003	151.6568	15.1354	4.6700e-003	15.1400						506.1059
Stationary	0.1497	0.4183	0.3816	7.2000e-004		0.0220	0.0220		0.0220	0.0220						69.7009
Waste						0.0000	0.0000		0.0000	0.0000						79.2975
Water						0.0000	0.0000		0.0000	0.0000						61.0301
Total	**1.1193**	**1.8719**	**2.5412**	**6.2800e-003**	**151.6518**	**0.0282**	**151.6801**	**15.1354**	**0.0280**	**15.1633**						**28,878.0604**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7811	4.0000e-005	3.9800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005						8.2100e-003
Energy	1.8400e-003	0.0167	0.0140	1.0000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003						26,287.0935
Mobile	0.1867	1.4369	2.1416	5.4600e-003	151.6518	4.9400e-003	151.6568	15.1354	4.6700e-003	15.1400						506.1059
Stationary	0.1497	0.4183	0.3816	7.2000e-004		0.0220	0.0220		0.0220	0.0220						69.7009
Waste						0.0000	0.0000		0.0000	0.0000						39.6488
Water						0.0000	0.0000		0.0000	0.0000						48.8241
Total	**1.1193**	**1.8719**	**2.5412**	**6.2800e-003**	**151.6518**	**0.0282**	**151.6801**	**15.1354**	**0.0280**	**15.1633**						**26,951.3813**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**	**6.67**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/16/2018	6/12/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.37

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
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

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
Demolition	6	15.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0372	0.3832	0.2230	3.9000e-004		0.0194	0.0194		0.0181	0.0181						35.3660
Total	**0.0372**	**0.3832**	**0.2230**	**3.9000e-004**		**0.0194**	**0.0194**		**0.0181**	**0.0181**						**35.3660**

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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	1.0100e-003	8.1000e-004	7.4100e-003	1.0000e-005	0.7797	1.0000e-005	0.7797	0.0779	1.0000e-005	0.0779						0.7448
Total	**1.0100e-003**	**8.1000e-004**	**7.4100e-003**	**1.0000e-005**	**0.7797**	**1.0000e-005**	**0.7797**	**0.0779**	**1.0000e-005**	**0.0779**						**0.7448**

3.2 Demolition - 2018

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	0.0372	0.3832	0.2230	3.9000e-004		0.0194	0.0194		0.0181	0.0181						35.3660
Total	**0.0372**	**0.3832**	**0.2230**	**3.9000e-004**		**0.0194**	**0.0194**		**0.0181**	**0.0181**						**35.3660**

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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	1.0100e-003	8.1000e-004	7.4100e-003	1.0000e-005	4.7000e-004	1.0000e-005	4.7000e-004	1.3000e-004	1.0000e-005	1.4000e-004						0.7448
Total	**1.0100e-003**	**8.1000e-004**	**7.4100e-003**	**1.0000e-005**	**4.7000e-004**	**1.0000e-005**	**4.7000e-004**	**1.3000e-004**	**1.0000e-005**	**1.4000e-004**						**0.7448**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1867	1.4369	2.1416	5.4600e-003	151.6518	4.9400e-003	151.6568	15.1354	4.6700e-003	15.1400						506.1059
Unmitigated	0.1867	1.4369	2.1416	5.4600e-003	151.6518	4.9400e-003	151.6568	15.1354	4.6700e-003	15.1400						506.1059

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	315.35	315.35	315.35	814,060	814,060
Total	315.35	315.35	315.35	814,060	814,060

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	6.70	5.00	8.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.503420	0.033264	0.160883	0.129541	0.018929	0.005318	0.019165	0.118376	0.003239	0.001168	0.005214	0.000745	0.000738
Unrefrigerated Warehouse-No Rail	0.503420	0.033264	0.160883	0.129541	0.018929	0.005318	0.019165	0.118376	0.003239	0.001168	0.005214	0.000745	0.000738

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000						26,268.8145
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						28,143.6388
NaturalGas Mitigated	1.8400e-003	0.0167	0.0140	1.0000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003						18.2790
NaturalGas Unmitigated	1.8400e-003	0.0167	0.0140	1.0000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003						18.2790

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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Unrefrigerated Warehouse-No Rail	340512	1.8400e-003	0.0167	0.0140	1.0000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003						18.2790
Total		**1.8400e-003**	**0.0167**	**0.0140**	**1.0000e-004**		**1.2700e-003**	**1.2700e-003**		**1.2700e-003**	**1.2700e-003**						**18.2790**

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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Unrefrigerated Warehouse-No Rail	340512	1.8400e-003	0.0167	0.0140	1.0000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003						18.2790
Total		**1.8400e-003**	**0.0167**	**0.0140**	**1.0000e-004**		**1.2700e-003**	**1.2700e-003**		**1.2700e-003**	**1.2700e-003**						**18.2790**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	36820				17.6426
Unrefrigerated Warehouse-No Rail	5.86989e+007				28,125.9963
Total					**28,143.6388**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	30928.8				14.8198
Unrefrigerated Warehouse-No Rail	5.47921e+007				26,253.9948
Total					**26,268.8145**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7811	4.0000e-005	3.9800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005						8.2100e-003
Unmitigated	0.7811	4.0000e-005	3.9800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005						8.2100e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1188					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.6619					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	3.7000e-004	4.0000e-005	3.9800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005						8.2100e-003
Total	**0.7811**	**4.0000e-005**	**3.9800e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**						**8.2100e-003**

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	0.1188					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.6619					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	3.7000e-004	4.0000e-005	3.9800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005						8.2100e-003
Total	**0.7811**	**4.0000e-005**	**3.9800e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**						**8.2100e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				48.8241
Unmitigated				61.0301

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0				0.0000
Unrefrigerated Warehouse-No Rail	8.03 / 0				61.0301
Total					**61.0301**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0				0.0000
Unrefrigerated Warehouse-No Rail	6.424 / 0				48.8241
Total					**48.8241**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				39.6488
Unmitigated				79.2975

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0				0.0000
Unrefrigerated Warehouse-No Rail	157.68				79.2975
Total					**79.2975**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0				0.0000
Unrefrigerated Warehouse-No Rail	78.84				39.6488
Total					**39.6488**

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
Emergency Generator	4	8	100	456	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

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					
Emergency Generator - Diesel (300 - 600 HP)	0.1497	0.4183	0.3816	7.2000e-004		0.0220	0.0220		0.0220	0.0220						69.7009
Total	**0.1497**	**0.4183**	**0.3816**	**7.2000e-004**		**0.0220**	**0.0220**		**0.0220**	**0.0220**						**69.7009**

11.0 Vegetation

Trinity Cannabis Facility - Operational

Imperial County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	167.74	1000sqft	3.85	167,740.00	0
Parking Lot	263.00	Space	2.37	105,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	12
Climate Zone	15			**Operational Year**	2020
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1054.27	**CH4 Intensity (lb/MWhr)**	0.024	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Trinity Cannabis Facility - Operational - Imperial County, Summer

Project Characteristics - Includes RPS adjustment

Land Use - 167.74 ksf building sqft, 263 parking spaces

Construction Phase - const not included

Vehicle Trips - Trip gen (1.88) from traffic analysis

Consumer Products - Consumer products based on defaults

Area Coating - Arch coating based on model defaults

Landscape Equipment - Based on model defaults

Energy Use - Energy use assumes a total of 58,698,267 kWh/yr. Cultivation Non-Title 24 (54.1%): 189.32 Kwh/sf/yr. Non-Cultivation T-24 (4.3%): 15.05 KWh/sf/yr. Lighting (41.6%): 145.57 KWh/sf/yr. Nat gas based on model defaults.

Water And Wastewater - 8030000 gal/yr water use

Solid Waste - Based on model defaults

Energy Mitigation - Installation of high-efficiency lighting (16% reduction)

Water Mitigation - Installation of low-flow fixtures

Waste Mitigation - Includes 50% reduction per current statewide rate

Stationary Sources - Emergency Generators and Fire Pumps - Assumes 4 emergency gen sets, 456 bhp, 8 hrs/day, 100 hrs/yr per permit limitations

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	1.17	145.57
tblEnergyUse	NT24E	0.82	189.32
tblEnergyUse	T24E	0.37	15.05
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.024
tblProjectCharacteristics	CO2IntensityFactor	1270.9	1054.27
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	456.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	8.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	100.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	4.00
tblVehicleTrips	ST_TR	1.68	1.88
tblVehicleTrips	SU_TR	1.68	1.88
tblVehicleTrips	WD_TR	1.68	1.88
tblWater	IndoorWaterUseRate	38,789,875.00	8,030,000.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	3.8410	38.4007	23.2113	0.0397	80.6215	1.9392	82.5607	8.0535	1.8054	9.8589						3,989.1380
Maximum	**3.8410**	**38.4007**	**23.2113**	**0.0397**	**80.6215**	**1.9392**	**82.5607**	**8.0535**	**1.8054**	**9.8589**						**3,989.1380**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	3.8410	38.4007	23.2113	0.0397	0.0471	1.9392	1.9863	0.0132	1.8054	1.8186						3,989.1380
Maximum	**3.8410**	**38.4007**	**23.2113**	**0.0397**	**0.0471**	**1.9392**	**1.9863**	**0.0132**	**1.8054**	**1.8186**						**3,989.1380**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**99.94**	**0.00**	**97.59**	**99.84**	**0.00**	**81.55**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.2821	4.1000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004						0.1006
Energy	0.0101	0.0915	0.0768	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003						110.4064
Mobile	1.2299	7.7555	13.9822	0.0319	833.2580	0.0269	833.2849	83.1628	0.0255	83.1882						3,250.2525
Stationary	23.9433	66.9294	61.0584	0.1151		3.5226	3.5226		3.5226	3.5226						12,293.1272
Total	**29.4653**	**74.7768**	**75.1616**	**0.1475**	**833.2580**	**3.5566**	**836.8146**	**83.1628**	**3.5552**	**86.7179**						**15,653.8867**

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	lb/day										lb/day					
Area	4.2821	4.1000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004						0.1006
Energy	0.0101	0.0915	0.0768	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003						110.4064
Mobile	1.2299	7.7555	13.9822	0.0319	833.2580	0.0269	833.2849	83.1628	0.0255	83.1882						3,250.2525
Stationary	23.9433	66.9294	61.0584	0.1151		3.5226	3.5226		3.5226	3.5226						12,293.1272
Total	**29.4653**	**74.7768**	**75.1616**	**0.1475**	**833.2580**	**3.5566**	**836.8146**	**83.1628**	**3.5552**	**86.7179**						**15,653.8867**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Demolition	Demolition	5/16/2018	6/12/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.37

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
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

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
Demolition	6	15.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048						3,898.4344
Total	**3.7190**	**38.3225**	**22.3040**	**0.0388**		**1.9386**	**1.9386**		**1.8048**	**1.8048**						**3,898.4344**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1220	0.0782	0.9073	9.2000e-004	80.6215	6.1000e-004	80.6222	8.0535	5.6000e-004	8.0541						90.7036
Total	**0.1220**	**0.0782**	**0.9073**	**9.2000e-004**	**80.6215**	**6.1000e-004**	**80.6222**	**8.0535**	**5.6000e-004**	**8.0541**						**90.7036**

3.2 Demolition - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048						3,898.4344
Total	**3.7190**	**38.3225**	**22.3040**	**0.0388**		**1.9386**	**1.9386**		**1.8048**	**1.8048**						**3,898.4344**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1220	0.0782	0.9073	9.2000e-004	0.0471	6.1000e-004	0.0478	0.0132	5.6000e-004	0.0138						90.7036
Total	**0.1220**	**0.0782**	**0.9073**	**9.2000e-004**	**0.0471**	**6.1000e-004**	**0.0478**	**0.0132**	**5.6000e-004**	**0.0138**						**90.7036**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2299	7.7555	13.9822	0.0319	833.2580	0.0269	833.2849	83.1628	0.0255	83.1882						3,250.2525
Unmitigated	1.2299	7.7555	13.9822	0.0319	833.2580	0.0269	833.2849	83.1628	0.0255	83.1882						3,250.2525

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	315.35	315.35	315.35	814,060	814,060
Total	315.35	315.35	315.35	814,060	814,060

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	6.70	5.00	8.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.503420	0.033264	0.160883	0.129541	0.018929	0.005318	0.019165	0.118376	0.003239	0.001168	0.005214	0.000745	0.000738
Unrefrigerated Warehouse-No Rail	0.503420	0.033264	0.160883	0.129541	0.018929	0.005318	0.019165	0.118376	0.003239	0.001168	0.005214	0.000745	0.000738

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0101	0.0915	0.0768	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003						110.4064
NaturalGas Unmitigated	0.0101	0.0915	0.0768	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003						110.4064

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Unrefrigerated Warehouse-No Rail	932.91	0.0101	0.0915	0.0768	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003						110.4064
Total		**0.0101**	**0.0915**	**0.0768**	**5.5000e-004**		**6.9500e-003**	**6.9500e-003**		**6.9500e-003**	**6.9500e-003**						**110.4064**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Unrefrigerated Warehouse-No Rail	0.93291	0.0101	0.0915	0.0768	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003						110.4064
Total		**0.0101**	**0.0915**	**0.0768**	**5.5000e-004**		**6.9500e-003**	**6.9500e-003**		**6.9500e-003**	**6.9500e-003**						**110.4064**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.2821	4.1000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004						0.1006
Unmitigated	4.2821	4.1000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004						0.1006

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6510					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	3.6269					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	4.1600e-003	4.1000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004						0.1006
Total	**4.2821**	**4.1000e-004**	**0.0443**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**						**0.1006**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6510					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	3.6269					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	4.1600e-003	4.1000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004						0.1006
Total	**4.2821**	**4.1000e-004**	**0.0443**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**						**0.1006**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	4	8	100	456	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

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	lb/day										lb/day					
Emergency Generator - Diesel (300 - 600 HP)	23.9433	66.9294	61.0584	0.1151		3.5226	3.5226		3.5226	3.5226						12,293.1272
Total	**23.9433**	**66.9294**	**61.0584**	**0.1151**		**3.5226**	**3.5226**		**3.5226**	**3.5226**						**12,293.1272**

11.0 Vegetation

Trinity Cannabis Facility - Operational

Imperial County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	167.74	1000sqft	3.85	167,740.00	0
Parking Lot	263.00	Space	2.37	105,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.4	**Precipitation Freq (Days)**	12
Climate Zone	15			**Operational Year**	2020
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1054.27	**CH4 Intensity (lb/MWhr)**	0.024	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Trinity Cannabis Facility - Operational - Imperial County, Winter

Project Characteristics - Includes RPS adjustment

Land Use - 167.74 ksf building sqft, 263 parking spaces

Construction Phase - const not included

Vehicle Trips - Trip gen (1.88) from traffic analysis

Consumer Products - Consumer products based on defaults

Area Coating - Arch coating based on model defaults

Landscape Equipment - Based on model defaults

Energy Use - Energy use assumes a total of 58,698,267 kWh/yr. Cultivation Non-Title 24 (54.1%): 189.32 Kwh/sf/yr. Non-Cultivation T-24 (4.3%): 15.05 KWh/sf/yr. Lighting (41.6%): 145.57 KWh/sf/yr. Nat gas based on model defaults.

Water And Wastewater - 8030000 gal/yr water use

Solid Waste - Based on model defaults

Energy Mitigation - Installation of high-efficiency lighting (16% reduction)

Water Mitigation - Installation of low-flow fixtures

Waste Mitigation - Includes 50% reduction per current statewide rate

Stationary Sources - Emergency Generators and Fire Pumps - Assumes 4 emergency gen sets, 456 bhp, 8 hrs/day, 100 hrs/yr per permit limitations

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	1.17	145.57
tblEnergyUse	NT24E	0.82	189.32
tblEnergyUse	T24E	0.37	15.05
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.024
tblProjectCharacteristics	CO2IntensityFactor	1270.9	1054.27
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	456.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	8.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	100.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	4.00
tblVehicleTrips	ST_TR	1.68	1.88
tblVehicleTrips	SU_TR	1.68	1.88
tblVehicleTrips	WD_TR	1.68	1.88
tblWater	IndoorWaterUseRate	38,789,875.00	8,030,000.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	3.8167	38.4048	22.9912	0.0396	80.6215	1.9392	82.5607	8.0535	1.8054	9.8589						3,974.5355
Maximum	**3.8167**	**38.4048**	**22.9912**	**0.0396**	**80.6215**	**1.9392**	**82.5607**	**8.0535**	**1.8054**	**9.8589**						**3,974.5355**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	3.8167	38.4048	22.9912	0.0396	0.0471	1.9392	1.9863	0.0132	1.8054	1.8186						3,974.5355
Maximum	**3.8167**	**38.4048**	**22.9912**	**0.0396**	**0.0471**	**1.9392**	**1.9863**	**0.0132**	**1.8054**	**1.8186**						**3,974.5355**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**99.94**	**0.00**	**97.59**	**99.84**	**0.00**	**81.55**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.2821	4.1000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004						0.1006
Energy	0.0101	0.0915	0.0768	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003						110.4064
Mobile	0.9452	7.8328	11.1885	0.0285	833.2580	0.0275	833.2855	83.1628	0.0261	83.1888						2,916.9245
Stationary	23.9433	66.9294	61.0584	0.1151		3.5226	3.5226		3.5226	3.5226						12,293.1272
Total	**29.1806**	**74.8541**	**72.3680**	**0.1442**	**833.2580**	**3.5573**	**836.8152**	**83.1628**	**3.5558**	**86.7185**						**15,320.5587**

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	lb/day										lb/day					
Area	4.2821	4.1000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004						0.1006
Energy	0.0101	0.0915	0.0768	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003						110.4064
Mobile	0.9452	7.8328	11.1885	0.0285	833.2580	0.0275	833.2855	83.1628	0.0261	83.1888						2,916.9245
Stationary	23.9433	66.9294	61.0584	0.1151		3.5226	3.5226		3.5226	3.5226						12,293.1272
Total	**29.1806**	**74.8541**	**72.3680**	**0.1442**	**833.2580**	**3.5573**	**836.8152**	**83.1628**	**3.5558**	**86.7185**						**15,320.5587**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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	Demolition	Demolition	5/16/2018	6/12/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.37

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
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

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
Demolition	6	15.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048						3,898.4344
Total	**3.7190**	**38.3225**	**22.3040**	**0.0388**		**1.9386**	**1.9386**		**1.8048**	**1.8048**						**3,898.4344**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0977	0.0823	0.6872	7.7000e-004	80.6215	6.1000e-004	80.6222	8.0535	5.6000e-004	8.0541						76.1012
Total	**0.0977**	**0.0823**	**0.6872**	**7.7000e-004**	**80.6215**	**6.1000e-004**	**80.6222**	**8.0535**	**5.6000e-004**	**8.0541**						**76.1012**

3.2 Demolition - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048						3,898.4344
Total	**3.7190**	**38.3225**	**22.3040**	**0.0388**		**1.9386**	**1.9386**		**1.8048**	**1.8048**						**3,898.4344**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0977	0.0823	0.6872	7.7000e-004	0.0471	6.1000e-004	0.0478	0.0132	5.6000e-004	0.0138						76.1012
Total	**0.0977**	**0.0823**	**0.6872**	**7.7000e-004**	**0.0471**	**6.1000e-004**	**0.0478**	**0.0132**	**5.6000e-004**	**0.0138**						**76.1012**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9452	7.8328	11.1885	0.0285	833.2580	0.0275	833.2855	83.1628	0.0261	83.1888						2,916.9245
Unmitigated	0.9452	7.8328	11.1885	0.0285	833.2580	0.0275	833.2855	83.1628	0.0261	83.1888						2,916.9245

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	315.35	315.35	315.35	814,060	814,060
Total	315.35	315.35	315.35	814,060	814,060

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	6.70	5.00	8.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.503420	0.033264	0.160883	0.129541	0.018929	0.005318	0.019165	0.118376	0.003239	0.001168	0.005214	0.000745	0.000738
Unrefrigerated Warehouse-No Rail	0.503420	0.033264	0.160883	0.129541	0.018929	0.005318	0.019165	0.118376	0.003239	0.001168	0.005214	0.000745	0.000738

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0101	0.0915	0.0768	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003						110.4064
NaturalGas Unmitigated	0.0101	0.0915	0.0768	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003						110.4064

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Unrefrigerated Warehouse-No Rail	932.91	0.0101	0.0915	0.0768	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003						110.4064
Total		**0.0101**	**0.0915**	**0.0768**	**5.5000e-004**		**6.9500e-003**	**6.9500e-003**		**6.9500e-003**	**6.9500e-003**						**110.4064**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Unrefrigerated Warehouse-No Rail	0.93291	0.0101	0.0915	0.0768	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003						110.4064
Total		**0.0101**	**0.0915**	**0.0768**	**5.5000e-004**		**6.9500e-003**	**6.9500e-003**		**6.9500e-003**	**6.9500e-003**						**110.4064**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.2821	4.1000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004						0.1006
Unmitigated	4.2821	4.1000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004						0.1006

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6510					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	3.6269					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	4.1600e-003	4.1000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004						0.1006
Total	**4.2821**	**4.1000e-004**	**0.0443**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**						**0.1006**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6510					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	3.6269					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	4.1600e-003	4.1000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004						0.1006
Total	**4.2821**	**4.1000e-004**	**0.0443**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**						**0.1006**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	4	8	100	456	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

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	lb/day										lb/day					
Emergency Generator - Diesel (300 - 600 HP)	23.9433	66.9294	61.0584	0.1151		3.5226	3.5226		3.5226	3.5226						12,293.1272
Total	**23.9433**	**66.9294**	**61.0584**	**0.1151**		**3.5226**	**3.5226**		**3.5226**	**3.5226**						**12,293.1272**

11.0 Vegetation

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