KUNZMAN ASSOCIATES, INC.

ALABAMA VENTURE 1 PROJECT

AIR QUALITY, GLOBAL CLIMATE CHANGE, AND HEALTH RISK ASSESSMENT IMPACT ANALYSIS

June 12, 2014

Traffic Engineering | Transportation Planning | Parking | Noise/Vibration | Expert Witness
Air Quality | Global Climate Change | Health Risk Assessment

KUNZMAN ASSOCIATES, INC.

ALABAMA VENTURE 1 PROJECT

AIR QUALITY, GLOBAL CLIMATE CHANGE, AND HEALTH RISK ASSESSMENT IMPACT ANALYSIS

June 12, 2014

Prepared by:

Katie Wilson, M.S.
Carl Ballard, LEED GA
William Kunzman, P.E.

1111 Town & Country Road, Suite 34
Orange, California 92868
(714) 973-8383

www.traffic-engineer.com

5416e

Table of Contents

APPENDICES

List of Tables

List of Figures

I. Introduction and Setting

A. Purpose and Objectives

This study was performed to address the possibility of regional and local air quality impacts, global climate change impacts, and cancer risk from diesel air emissions. The objectives of the study include:

- documentation of the atmospheric setting
- discussion of criteria pollutants and greenhouse gases
- discussion of the air quality and global climate change regulatory framework
- discussion of the air quality, greenhouse gases, and cancer risk thresholds of significance
- analysis of the construction related air quality and greenhouse gas emissions
- analysis of the operations related air quality and greenhouse gas emissions
- analysis of the operations related cancer risk from diesel emissions
- analysis of the conformity of the proposed project with the SCAQMD AQMP
- recommendations for mitigation measures

The County of San Bernardino is the lead agency responsible for preparation of this air quality analysis, in accordance with the California Environmental Quality Act authorizing legislation. Although this is a technical report, every effort has been made to write the report clearly and concisely. To assist the reader with terms unique to air quality and global climate change, a definition of terms has been provided in Appendix A.

B. Project Location

The project site is located north of Almond Avenue and west of Alabama Street in an unincorporated portion of the County of San Bernardino. A vicinity map showing the project location is provided on Figure 1.

According to the SCAQMD's MATES-III study, the project area has an estimated cancer risk of 817 in one million chance of cancer from toxic air emissions. In comparison the average cancer risk for San Bernardino County is 631 in one million. This increased cancer risk is largely due to the proximity to the I-10 and I-210 Freeways.

C. Project Description

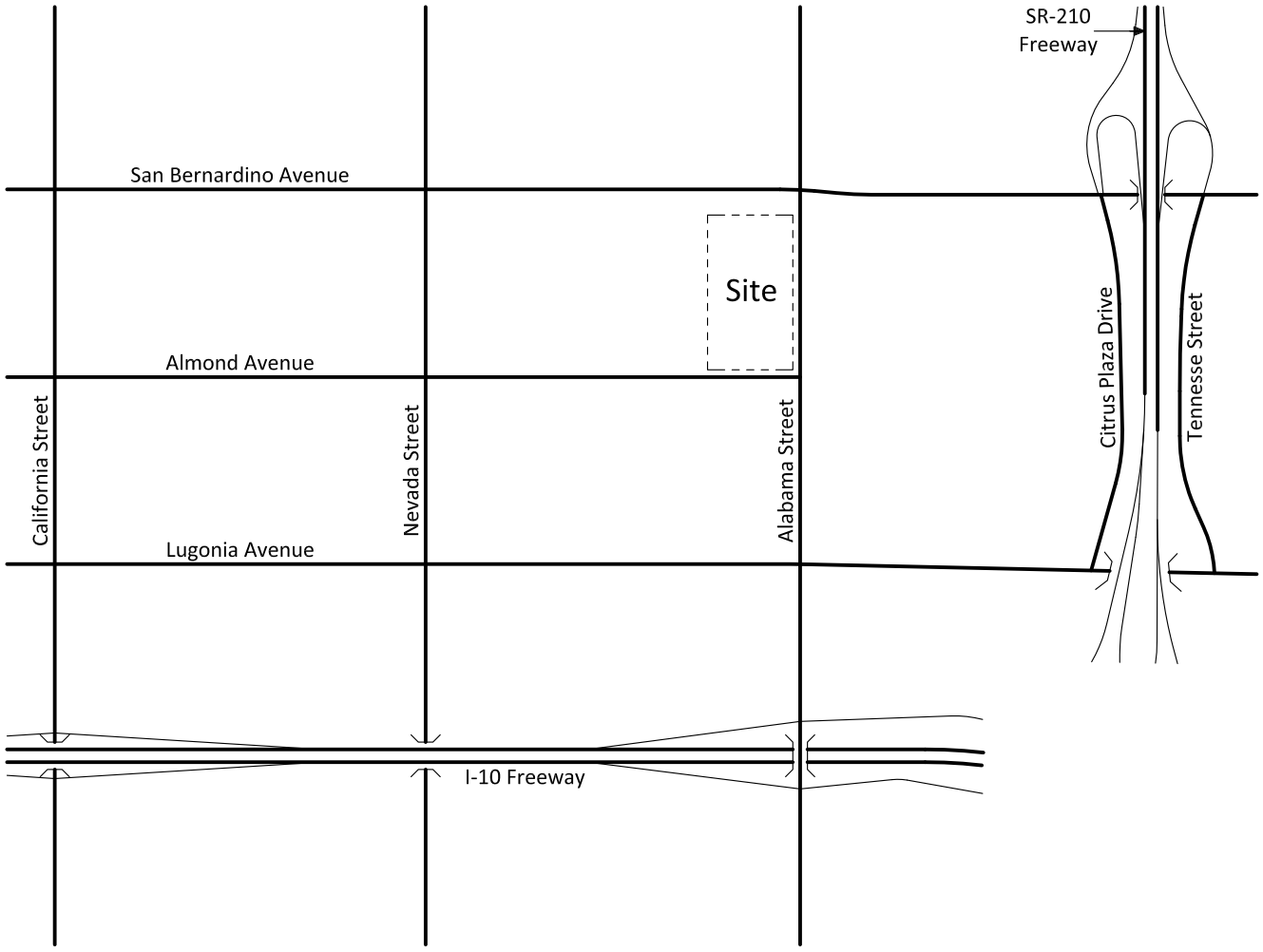
The project site is proposed to be developed with a 313,470 square foot high-cube warehouse distribution center on a 14.81 acre project site. Figure 2 illustrates the project site plan.

D. Sensitive Receptors in Project Vicinity

The nearest sensitive receptors to the project site consist of the Packing House Church and school that is adjacent to the north and west sides of the project site. There is also a

proposed 306 unit multi-family attached residential project that was approved by the Board of Supervisors on August 21, 2012 and located on the north side of Lugonia Avenue, which is approximately 1,000 feet southwest of the project site.

Figure 1
Project Location Map



N

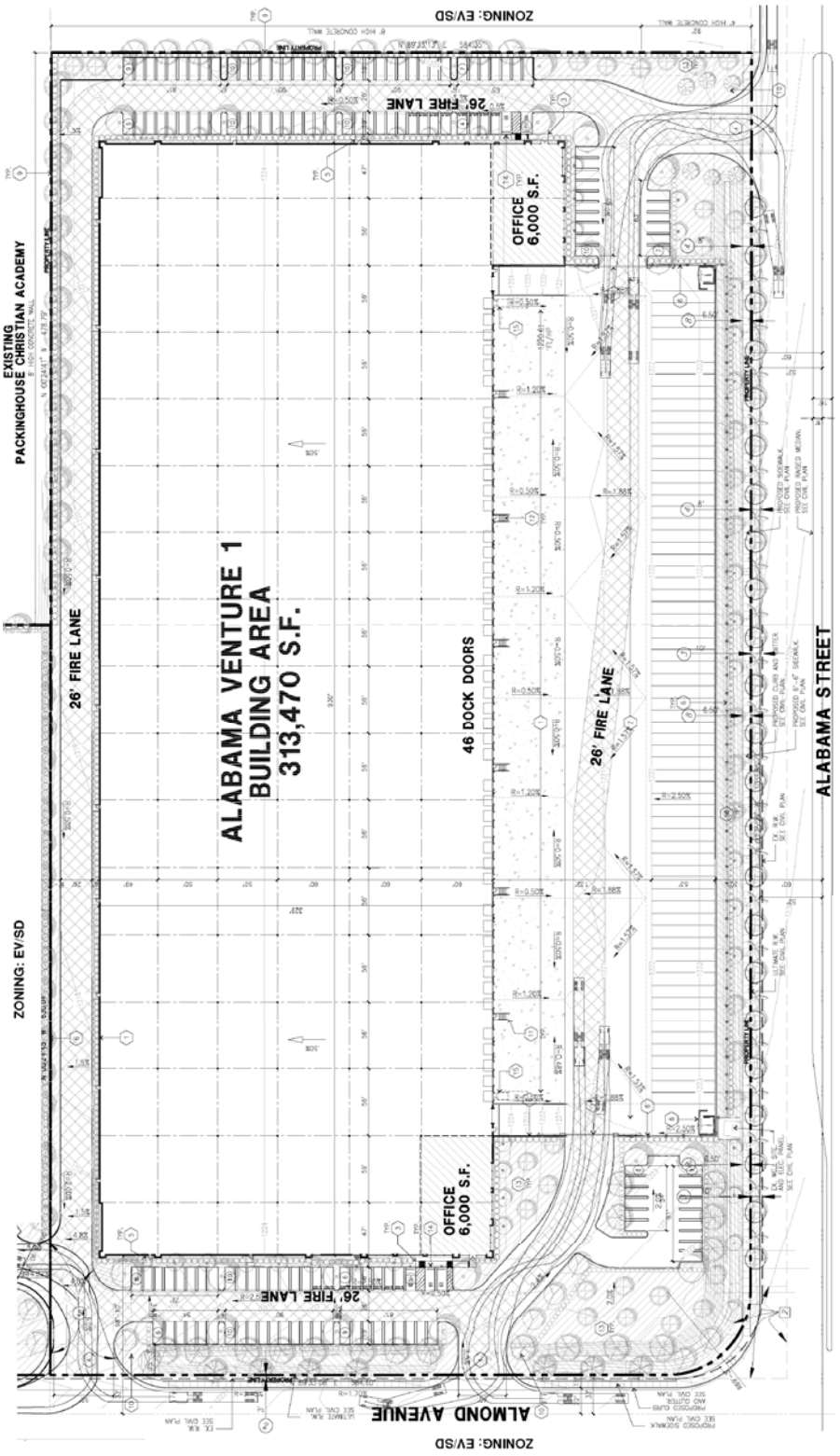
NTS

5416e/1

KUNZMAN ASSOCIATES, INC.

OVER 35 YEARS OF EXCELLENT SERVICE

Figure 2
Site Plan



N

NTS

5416e/2

II. Atmospheric Setting

The project site is located within the western portion of San Bernardino County, which is part of the South Coast Air Basin (SCAB) that includes all of Orange County as well as the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The South Coast Air Basin is located on a coastal plain with connecting broad valleys and low hills to the east. Regionally, the South Coast Air Basin is bounded by the Pacific Ocean to the southwest and high mountains to the east forming the inland perimeter. The project site is located toward the northeast portion of the South Coast Air Basin near the foot of the San Bernardino Mountains, which define the eastern boundary of the South Coast Air Basin.

The climate of western San Bernardino County, technically called an interior valley subclimate of the Southern California's Mediterranean-type climate, is characterized by hot dry summers, mild moist winters with infrequent rainfall, moderate afternoon breezes, and generally fair weather. Occasional periods of strong Santa Ana winds and winter storms interrupt the otherwise mild weather pattern. The clouds and fog that form along the area's coastline rarely extend as far inland as western San Bernardino County. When morning clouds and fog form, they typically burn off quickly after sunrise. The most important weather pattern from an air quality perspective is associated with the warm season airflow across the populated areas of the Los Angeles Basin. This airflow brings polluted air into western San Bernardino County late in the afternoon. This transport pattern creates unhealthful air quality that may extend to the project site particularly during the summer months.

Winds are an important parameter in characterizing the air quality environment of a project site because they both determine the regional pattern of air pollution transport and control the rate of dispersion near a source. Daytime winds in western San Bernardino County are usually light breezes from off the coast as air moves regionally onshore from the cool Pacific Ocean to the warm Mojave Desert interior of Southern California. These winds allow for good local mixing, but as discussed above, these coastal winds carry significant amounts of industrial and automobile air pollutants from the densely urbanized western portion of the South Coast Air Basin into the interior valleys which become trapped by the mountains that border the eastern edge of the South Coast Air Basin.

In the summer, strong temperature inversions may occur that limit the vertical depth through which air pollution can be dispersed. Air pollutants concentrate because they cannot rise through the inversion layer and disperse. These inversions are more common and persistent during the summer months. Over time, sunlight produces photochemical reactions within this inversion layer that creates ozone, a particularly harmful air pollutant. Occasionally, strong thermal convections occur which allows the air pollutants to rise high enough to pass over the mountains and ultimately dilute the smog cloud.

In the winter, light nocturnal winds result mainly from the drainage of cool air off of the mountains toward the valley floor while the air aloft over the valley remains warm. This forms a type of inversion known as a radiation inversion. Such winds are characterized by stagnation and poor local mixing and trap pollutants such as automobile exhaust near their source. While these inversions may lead to air pollution "hot spots" in heavily developed coastal areas of the basin,

there is not enough traffic in inland valleys to cause any winter air pollution problems. Despite light wind conditions, especially at night and in the early morning, winter is generally a period of good air quality in the project vicinity.

The temperature and precipitation levels for the City of Redlands, which is the nearest weather monitoring station to the project site is shown below in Table 1. Table 1 shows that August is typically the warmest month and December is typically the coolest month. Rainfall in the project area varies considerably in both time and space. Almost all the annual rainfall comes from the fringes of mid-latitude storms from late November to early April, with summers being almost completely dry.

Table 1

Redlands Monthly Climate Data[1]

Descriptor	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Avg. Max. Temperature	67	67	71	76	81	88	95	96	92	82	74	67
Avg. Min. Temperature	41	42	45	48	53	57	62	62	59	52	45	40
Avg. Total Precipitation (in.)	2.71	3.13	1.97	0.97	0.29	0.11	0.07	0.13	0.28	0.65	1.07	1.98

[1] Source: http://www.weather.com/weather/wxclimatology/monthly/graph/USCA0923

III. Pollutants

Pollutants are generally classified as either criteria pollutants or non-criteria pollutants. Federal ambient air quality standards have been established for criteria pollutants, whereas no ambient standards have been established for non-criteria pollutants. For some criteria pollutants, separate standards have been set for different periods. Most standards have been set to protect public health. For some pollutants, standards have been based on other values (such as protection of crops, protection of materials, or avoidance of nuisance conditions). A summary of federal and state ambient air quality standards is provided in the Regulatory Framework section.

A. Criteria Pollutants

The criteria pollutants consist of: ozone, nitrogen oxides, carbon monoxide, sulfur oxides, lead, and particulate matter. These pollutants can harm your health and the environment, and cause property damage. The Environmental Protection Agency (EPA) calls these pollutants "criteria" air pollutants because it regulates them by developing human health-based and/or environmentally-based criteria for setting permissible levels. The following provides descriptions of each of the criteria pollutants.

1. Nitrogen Oxides

Nitrogen Oxides (NOx) is the generic term for a group of highly reactive gases which contain nitrogen and oxygen. While most NOx are colorless and odorless, concentrations of nitrogen dioxide (NO_2) can often be seen as a reddish-brown layer over many urban areas. NOx form when fuel is burned at high temperatures, as in a combustion process. The primary manmade sources of NOx are motor vehicles, electric utilities, and other industrial, commercial, and residential sources that burn fuel. NOx reacts with other pollutants to form, ground-level ozone, nitrate particles, acid aerosols, as well as NO_2, which cause respiratory problems. NOx and the pollutants formed from NOx can be transported over long distances, following the patterns of prevailing winds. Therefore controlling NOx is often most effective if done from a regional perspective, rather than focusing on the nearest sources.

2. Ozone

Ozone is not usually emitted directly into the air but at ground-level is created by a chemical reaction between NOx and volatile organic compounds (VOC) in the presence of sunlight. Motor vehicle exhaust, industrial emissions, gasoline vapors, chemical solvents as well as natural sources emit NOx and VOC that help form ozone. Ground-level ozone is the primary constituent of smog. Sunlight and hot weather cause ground-level ozone to form with the greatest concentrations usually occurring downwind from urban areas. Ozone is subsequently considered a regional pollutant. Ground-level ozone is a respiratory irritant and an oxidant that increases susceptibility to respiratory infections and can cause substantial damage to vegetation and other materials. Because NOx and VOC are ozone precursors, the health effects associated

with ozone are also indirect health effects associated with significant levels of NOx and VOC emissions.

3. Carbon Monoxide

Carbon monoxide (CO) is a colorless, odorless gas that is formed when carbon in fuel is not burned completely. It is a component of motor vehicle exhaust, which contributes about 56 percent of all CO emissions nationwide. In cities, 85 to 95 percent of all CO emissions may come from motor vehicle exhaust. Other sources of CO emissions include industrial processes (such as metals processing and chemical manufacturing), residential wood burning, and natural sources such as forest fires. Woodstoves, gas stoves, cigarette smoke, and unvented gas and kerosene space heaters are indoor sources of CO. The highest levels of CO in the outside air typically occur during the colder months of the year when inversion conditions are more frequent. The air pollution becomes trapped near the ground beneath a layer of warm air. CO is described as having only a local influence because it dissipates quickly. Since CO concentrations are strongly associated with motor vehicle emissions, high CO concentrations generally occur in the immediate vicinity of roadways with high traffic volumes and traffic congestion, active parking lots, and in automobile tunnels. Areas adjacent to heavily traveled and congested intersections are particularly susceptible to high CO concentrations.

CO is a public health concern because it combines readily with hemoglobin and thus reduces the amount of oxygen transported in the bloodstream. The health threat from lower levels of CO is most serious for those who suffer from heart disease such as angina, clogged arteries, or congestive heart failure. For a person with heart disease, a single exposure to CO at low levels may cause chest pain and reduce that person's ability to exercise; repeated exposures may contribute to other cardiovascular effects. High levels of CO can affect even healthy people. People who breathe high levels of CO can develop vision problems, reduced ability to work or learn, reduced manual dexterity, and difficulty performing complex tasks. At extremely high levels, CO is poisonous and can cause death.

4. Sulfur Oxides

Sulfur Oxide (SOx) gases are formed when fuel containing sulfur, such as coal and oil is burned, and from the refining of gasoline. SOx dissolves easily in water vapor to form acid and interacts with other gases and particles in the air to form sulfates and other products that can be harmful to people and the environment.

5. Lead

Lead is a metal found naturally in the environment as well as manufactured products. The major sources of lead emissions have historically been motor vehicles and industrial sources. Due to the phase out of leaded gasoline, metal processing is now the primary source of lead emissions to the air. High levels of lead in the air are typically only found near lead smelters, waste incinerators, utilities, and lead-acid battery manufacturers. Exposure of fetuses, infants and children to low levels of lead

can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased lead levels are associated with increased blood pressure.

6. Particulate Matter

Particle matter (PM) is the term for a mixture of solid particles and liquid droplets found in the air. Particle matter is made up of a number of components including acids (such as nitrates and sulfates), organic chemicals, metals, and soil or dust particles. The size of particles is directly linked to their potential for causing health problems. Particles that are less than 10 micrometers in diameter (PM10) are the particles that generally pass through the throat and nose and enter the lungs. Once inhaled, these particles can affect the heart and lungs and cause serious health effects. Particles that are less than 2.5 micrometers in diameter (PM2.5) have been designated as a subset of PM10 due to their increased negative health impacts and its ability to remain suspended in the air longer and travel further.

7. Volatile Organic Compounds (VOC)

Although not a criteria pollutant, reactive organic gases (ROGs), or VOCs, are defined as any compound of carbon—excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate—that participates in atmospheric photochemical reactions. Although there are slight differences in the definition of ROGs and VOCs, the two terms are often used interchangeably. Indoor sources of VOCs include paints, solvents, aerosol sprays, cleansers, tobacco smoke, etc. Outdoor sources of VOCs are from combustion and fuel evaporation. A reduction in VOC emissions reduces certain chemical reactions that contribute to the formulation of ozone. VOCs are transformed into organic aerosols in the atmosphere, which contribute to higher PM10 and lower visibility.

B. Other Pollutants of Concern

1. Toxic Air Contaminants

In addition to the above-listed criteria pollutants, toxic air contaminants (TACs) are another group of pollutants of concern. Sources of toxic air contaminants include industrial processes such as petroleum refining and chrome plating operations, commercial operations such as gasoline stations and dry cleaners, and motor vehicle exhaust. Cars and trucks release at least forty different toxic air contaminants. The most important of these toxic air contaminants, in terms of health risk, are diesel particulates, benzene, formaldehyde, 1,3-butadiene, and acetaldehyde. Public exposure to toxic air contaminants can result from emissions from normal operations as well as from accidental releases. Health effects of toxic air contaminants include cancer, birth defects, neurological damage, and death.

Toxic air contaminants are less pervasive in the urban atmosphere than criteria air pollutants, however they are linked to short-term (acute) or long-term (chronic or

carcinogenic) adverse human health effects. There are hundreds of different types of toxic air contaminants with varying degrees of toxicity. Sources of toxic air contaminants include industrial processes, commercial operations (e.g., gasoline stations and dry cleaners), and motor vehicle exhaust.

According to the 2005 California Almanac of Emissions and Air Quality, the majority of the estimated health risk from toxic air contaminants can be attributed to relatively few compounds, the most important of which is diesel particulate matter (DPM). Diesel particulate matter is a subset of PM2.5 because the size of diesel particles are typically 2.5 microns and smaller. The identification of diesel particulate matter as a toxic air contaminant in 1998 led the California Air Resources Board (CARB) to adopt the Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-fueled Engines and Vehicles in September 2000. The plan's goals are a 75-percent reduction in diesel particulate matter by 2010 and an 85-percent reduction by 2020 from the 2000 baseline. Diesel engines emit a complex mixture of air pollutants, composed of gaseous and solid material. The visible emissions in diesel exhaust are known as particulate matter or PM, which includes carbon particles or "soot." Diesel exhaust also contains a variety of harmful gases and over 40 other cancer-causing substances. California's identification of diesel particulate matter as a toxic air contaminant was based on its potential to cause cancer, premature deaths, and other health problems. Exposure to diesel particulate matter is a health hazard, particularly to children whose lungs are still developing and the elderly who may have other serious health problems. Overall, diesel engine emissions are responsible for the majority of California's potential airborne cancer risk from combustion sources.

2. Asbestos

Asbestos is listed as a TAC by the ARB and as a Hazardous Air Pollutant by the EPA. Asbestos occurs naturally in mineral formations and crushing or breaking these rocks, through construction or other means, can release asbestiform fibers into the air. Asbestos emissions can result from the sale or use of asbestos-containing materials, road surfacing with such materials, grading activities, and surface mining. The risk of disease is dependent upon the intensity and duration of exposure. When inhaled, asbestos fibers may remain in the lungs and with time may be linked to such diseases as asbestosis, lung cancer, and mesothelioma. The nearest likely locations of naturally occurring asbestos, as identified in the General Location Guide for Ultramafic Rocks in California prepared by the California Division of Mines and Geology, is located in Santa Barbara County. The nearest historic asbestos mine to the project site, as identified in the Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California, prepared by U.S. Geological Survey, is located at Asbestos Mountain within the San Jacinto Mountain range and approximately 50 miles southeast of the project site. Due to these distances to the nearest natural occurrences of asbestos, neither the project site nor any fill material imported to the site is likely to contain asbestos.

C. Greenhouse Gases

Constituent gases of the Earth's atmosphere, called atmospheric greenhouse gases (GHG), play a critical role in the Earth's radiation amount by trapping infrared radiation emitted from the Earth's surface, which otherwise would have escaped to space. Prominent greenhouse gases contributing to this process include carbon dioxide (CO_2), methane (CH_4), ozone, water vapor, nitrous oxide (N_2O), and chlorofluorocarbons (CFCs). This phenomenon, known as the Greenhouse Effect, is responsible for maintaining a habitable climate. Anthropogenic (caused or produced by humans) emissions of these greenhouse gases in excess of natural ambient concentrations are responsible for the enhancement of the Greenhouse Effect and have led to a trend of unnatural warming of the Earth's natural climate, known as global warming or climate change. Emissions of gases that induce global warming are attributable to human activities associated with industrial/manufacturing, agriculture, utilities, transportation, and residential land uses. Transportation is responsible for 41 percent of the State's greenhouse gas emissions, followed by electricity generation. Emissions of CO_2 and nitrous oxide (NOx) are byproducts of fossil fuel combustion. Methane, a potent greenhouse gas, results from off-gassing associated with agricultural practices and landfills. Sinks of CO_2, where CO_2 is stored outside of the atmosphere, include uptake by vegetation and dissolution into the ocean. The following provides a description of each of the greenhouse gases and their global warming potential.

1. Water Vapor

Water vapor is the most abundant, important, and variable GHG in the atmosphere. Water vapor is not considered a pollutant; in the atmosphere it maintains a climate necessary for life. Changes in its concentration are primarily considered a result of climate feedbacks related to the warming of the atmosphere rather than a direct result of industrialization. The feedback loop in which water is involved is critically important to projecting future climate change. As the temperature of the atmosphere rises, more water is evaporated from ground storage (rivers, oceans, reservoirs, soil). Because the air is warmer, the relative humidity can be higher (in essence, the air is able to "hold" more water when it is warmer), leading to more water vapor in the atmosphere. As a GHG, the higher concentration of water vapor is then able to absorb more thermal indirect energy radiated from the Earth, thus further warming the atmosphere. The warmer atmosphere can then hold more water vapor and so on and so on. This is referred to as a "positive feedback loop." The extent to which this positive feedback loop will continue is unknown as there is also dynamics that put the positive feedback loop in check. As an example, when water vapor increases in the atmosphere, more of it will eventually also condense into clouds, which are more able to reflect incoming solar radiation (thus allowing less energy to reach the Earth's surface and heat it up).

2. Carbon Dioxide

The natural production and absorption of CO_2 is achieved through the terrestrial biosphere and the ocean. However, humankind has altered the natural carbon cycle by burning coal, oil, natural gas, and wood. Since the industrial revolution began in the mid 1700s. Each of these activities has increased in scale and distribution. CO_2

was the first GHG demonstrated to be increasing in atmospheric concentration with the first conclusive measurements being made in the last half of the 20th century. Prior to the industrial revolution, concentrations were fairly stable at 280 parts per million (ppm). The International Panel on Climate Change (IPCC) indicates that concentrations were 379 ppm in 2005, an increase of more than 30 percent. Left unchecked, the IPCC projects that concentration of carbon dioxide in the atmosphere is projected to increase to a minimum of 540 ppm by 2100 as a direct result of anthropogenic sources. This could result in an average global temperature rise of at least two degrees Celsius or 3.6 degrees Fahrenheit.

3. Methane

CH_4 is an extremely effective absorber of radiation, although its atmospheric concentration is less than that of CO_2. Its lifetime in the atmosphere is brief (10 to 12 years), compared to some other GHGs (such as CO_2, N_2O, and Chlorofluorocarbons (CFCs). CH_4 has both natural and anthropogenic sources. It is released as part of the biological processes in low oxygen environments, such as in swamplands or in rice production (at the roots of the plants). Over the last 50 years, human activities such as growing rice, raising cattle, using natural gas, and mining coal have added to the atmospheric concentration of methane. Other anthropocentric sources include fossil-fuel combustion and biomass burning.

4. Nitrous Oxide

Concentrations of N_2O also began to rise at the beginning of the industrial revolution. In 1998, the global concentration of this GHG was documented at 314 parts per billion (ppb). N_2O is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its atmospheric load. It is also commonly used as an aerosol spray propellant, (i.e., in whipped cream bottles, in potato chip bags to keep chips fresh, and in rocket engines and in race cars).

5. Chlorofluorocarbons

CFCs are gases formed synthetically by replacing all hydrogen atoms in methane or ethane (C_2H_6) with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the Earth's surface). CFCs have no natural source, but were first synthesized in 1928. It was used for refrigerants, aerosol propellants, and cleaning solvents. Due to the discovery that they are able to destroy stratospheric ozone, a global effort to halt their production was undertaken and in 1989 the European Community agreed to ban CFCs by 2000 and subsequent treaties banned CFCs worldwide by 2010. This effort was extremely successful, and the levels of the major CFCs are now remaining level or declining. However, their long atmospheric lifetimes mean that some of the CFCs will remain in the atmosphere for over 100 years.

6. Hydrofluorocarbons

HFCs are synthetic man-made chemicals that are used as a substitute for CFCs. Out of all the GHGs, they are one of three groups with the highest global warming potential. The HFCs with the largest measured atmospheric abundances are (in order), HFC-23 (CHF_3), HFC-134a (CF_3CH_2F), and HFC-152a (CH_3CHF_2). Prior to 1990, the only significant emissions were HFC-23. HFC-134a use is increasing due to its use as a refrigerant. Concentrations of HFC-23 and HFC-134a in the atmosphere are now about 10 parts per trillion (ppt) each. Concentrations of HFC-152a are about 1 ppt. HFCs are manmade for applications such as automobile air conditioners and refrigerants.

7. Perfluorocarbons

PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere. High-energy ultraviolet rays about 60 kilometers above Earth's surface are able to destroy the compounds. Because of this, PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane (CF_4) and hexafluoroethane (C_2F_6). Concentrations of CF_4 in the atmosphere are over 70 ppt. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing.

8. Sulfur Hexafluoride

SF_6 is an inorganic, odorless, colorless, nontoxic, nonflammable gas. SF_6 has the highest global warming potential of any gas evaluated; 23,900 times that of CO_2. Concentrations in the 1990s were about 4 ppt. Sulfur hexafluoride is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.

9. Aerosols

Aerosols are particles emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light. Cloud formation can also be affected by aerosols. Sulfate aerosols are emitted when fuel containing sulfur is burned. Black carbon (or soot) is emitted during biomass burning due to the incomplete combustion of fossil fuels. Particulate matter regulation has been lowering aerosol concentrations in the United States; however, global concentrations are likely increasing.

10. Global Warming Potential

GHGs have varying global warming potential (GWP). The global warming potential is the potential of a gas or aerosol to trap heat in the atmosphere; it is the cumulative radiative forcing effects of a gas over a specified time horizon resulting from the emission of a unit mass of gas relative to the reference gas, CO_2. One teragram of carbon dioxide equivalent (Tg CO_2e) is essentially the emissions of the gas multiplied by the global warming potential. One teragram is equal to one million metric tons.

The carbon dioxide equivalent is a good way to assess emissions because it gives weight to the global warming potential of the gas. A summary of the atmospheric lifetime and the global warming potential of selected gases are summarized in Table 2. As shown in Table 2, the global warming potential of GHGs ranges from 1 to 23,900.

Table 2

Global Warming Potentials and Atmospheric Lifetimes[1]

Gas	Atmospheric Lifetime (years)	Global Warming Potential[2] (100 Year Horizon)
Carbon Dioxide	50-200	1
Methane	12 ± 3	21
Nitrous Oxide	120	310
HFC-23	264	11,700
HFC-134a	14.6	1,300
HFC-152a	1.5	140
PFC: Tetrafluoromethane	50,000	6,500
PFC: Hexafluoroethane	10,000	9,200
Sulfur Hexafluoride	3,200	23,900

[1] Source: United States Environmental Protection Agency, 2006.

[2] Compared to the same quantity of CO_2 emissions.

IV. Air Quality Management

A. Regulatory Setting

The proposed project is addressed through the efforts of various international, federal, state, regional, and local government agencies. These agencies work jointly, as well as individually, to improve air quality through legislation, regulations, planning, policy-making, education, and a variety of programs. The agencies responsible for improving the air quality are discussed below.

1. International

In 1988, the United Nations established the Intergovernmental Panel on Climate Change (IPCC) to evaluate the impacts of global climate change and to develop strategies that nations could implement to curtail global climate change. In 1992, the United States joined other countries around the world in signing the United Nations' Framework Convention on Climate Change (UNFCCC) agreement with the goal of controlling GHG emissions. As a result, the Climate Change Action Plan was developed to address the reduction of GHGs in the United States. The plan consists of more than 50 voluntary programs.

Additionally, the Montreal Protocol was originally signed in 1987 and substantially amended in 1990 and 1992. The Montreal Protocol stipulates that the production and consumption of compounds that deplete ozone in the stratosphere—CFCs, halons, carbon tetrachloride, and methyl chloroform—were to be phased out, with the first three by the year 2000 and methyl chloroform by 2005.

2. Federal - United States Environmental Protection Agency

The United States Environmental Protection Agency (EPA) is responsible for setting and enforcing the National Ambient Air Quality Standards (NAAQS) for atmospheric pollutants. It regulates emission sources that are under the exclusive authority of the federal government, such as aircraft, ships, and certain locomotives. The National Ambient Air Quality Standards (NAAQS) pollutants were identified using medical evidence and are shown below in Table 3.

As part of its enforcement responsibilities, the EPA requires each state with federal nonattainment areas to prepare and submit a State Implementation Plan (SIP) that demonstrates the means to attain the national standards. The State Implementation Plan (SIP) must integrate federal, state, and local components and regulations to identify specific measures to reduce pollution, using a combination of performance standards and market-based programs within the timeframe identified in the State Implementation Plan (SIP).

As indicated below in Table 4, the Basin has been designated by the EPA as a non-attainment area for ozone (O_3) and suspended particulates (PM10 and PM2.5).

Currently, the Basin is in attainment with the ambient air quality standards for carbon monoxide (CO), lead, sulfur dioxide (SO_2), and nitrogen dioxide (NO_2).

In 2011, the Basin exceeded federal standards for either ozone or PM2.5 at one or more locations on a total of 124 days, based on the current federal standards for 8-hour ozone and 24-hour PM2.5. Despite substantial improvements in air quality over the past few decades, some air monitoring stations in the Basin still exceed the NAAQS for ozone more frequently than any other stations in the U.S. In 2011, three of the top five stations that exceeded the 8-hour ozone NAAQS were located in the Basin (Central San Bernardino Mountains, East San Bernardino Valley, and Metropolitan Riverside County).

PM2.5 in the Basin has improved significantly in recent years, with 2010 and 2011 being the cleanest years on record. In 2011, only one station in the Basin (Metropolitan Riverside County at Mira Loma) exceeded the prior annual PM2.5 NAAQS and the 98th percentile form of the 24-hour PM2.5 NAAQS, as well as the 3-year design values for these standards. Basin-wide, the federal PM2.5 24-hour standard level was exceeded in 2011 on 17 sampling days. However, on December 14, 2012, the EPA revised the primary annual PM2.5 NAAQS from 15 $\mu g/m^3$ to 12 $\mu g/m^3$ and retained the 24 hour PM2.5 standard at 35 $\mu g/m^3$, which may result in more exceedances of the standard.

The Basin is currently in attainment for the federal standards for carbon monoxide (CO), lead, sulfur dioxide (SO_2), and nitrogen dioxide (NO_2). While the concentration level of the new 1-hour NO_2 federal standard (100 ppb) was exceeded in the Basin at two stations (Central Los Angeles and Long Beach) on the same day in 2011, the NAAQS NO_2 design value has not been exceeded. Therefore, the Basin remains in attainment of the NO_2 NAAQS.

The EPA designated the Los Angeles County portion of the Basin as nonattainment for the recently revised (2008) federal lead standard (0.15 µg/m3, rolling 3-month average), due to the addition of source-specific monitoring under the new federal regulation. This designation was based on two source-specific monitors in Vernon and the City of Industry exceeding the new standard in the 2007-2009 period of data used. For the most recent 2009-2011 data period, only one of these stations (Vernon) still exceeded the lead standard.

In Massachusetts v. Environmental Protection Agency (Docket No. 05–1120), argued November 29, 2006 and decided April 2, 2007, the U.S. Supreme Court held that not only did the EPA have authority to regulate greenhouse gases, but the EPA's reasons for not regulating this area did not fit the statutory requirements. As such, the U.S. Supreme Court ruled that the EPA should be required to regulate CO_2 and other greenhouse gases as pollutants under the federal Clean Air Act (CAA).

In response to the FY2008 Consolidations Appropriations Act (H.R. 2764; Public Law 110-161), EPA proposed a rule on March 10, 2009 that requires mandatory reporting of GHG emissions from large sources in the United States. On September 22, 2009, the Final Mandatory Reporting of GHG Rule was signed and published in the Federal

Register on October 30, 2009. The rule became effective on December 29, 2009. This rule requires suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year of GHG emissions to submit annual reports to EPA.

On December 7, 2009, the EPA Administrator signed two distinct findings under section 202(a) of the Clean Air Act. One is an endangerment finding that finds concentrations of the six GHGs in the atmosphere threaten the public health and welfare of current and future generations. The other is a cause or contribute finding, that finds emissions from new motor vehicles and new motor vehicle engines contribute to the GHG pollution which threatens public health and welfare. These actions will not themselves impose any requirements on industry or other entities. However, it is a prerequisite to finalizing the EPA's proposed GHG emission standards for light-duty vehicles, which were jointly proposed by the EPA and Department of Transportation on September 15, 2009.

3. State – California Air Resources Board

The California Air Resources Board (CARB), which is a part of the California Environmental Protection Agency, is responsible for the coordination and administration of both federal and state air pollution control programs within California. In this capacity, the CARB conducts research, sets the California Ambient Air Quality Standards (CAAQS), compiles emission inventories, develops suggested control measures, provides oversight of local programs, and prepares the State Implementation Plan (SIP). The California Ambient Air Quality Standards (CAAQS) for criteria pollutants are shown in Table 3. In addition, the CARB establishes emission standards for motor vehicles sold in California, consumer products (e.g. hairspray, aerosol paints, and barbeque lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

The South Coast Air Basin has been designated by the CARB as a nonattainment area for ozone, PM10 and PM2.5. Currently, the South Coast Air Basin is in attainment with the ambient air quality standards for CO, lead, SO_2, NO_2, and sulfates and is unclassified for visibility reducing particles and Hydrogen Sulfide.

On June 20, 2002, the CARB revised the PM10 annual average standard to 20 µg/m3 and established an annual average standard for PM2.5 of 12 µg/m3. These standards were approved by the Office of Administrative Law in June 2003 and are now effective. On September 27, 2007 CARB approved the South Coast Air Basin and the Coachella Valley 2007 Air Quality Management Plan for Attaining the Federal 8-hour Ozone and PM2.5 Standards. The plan projects attainment for the 8-hour Ozone standard by 2024 and the PM2.5 standard by 2015.

On December 12, 2008 the CARB adopted Resolution 08-43, which limits NOx, PM10 and PM2.5 emissions from on-road diesel truck fleets that operate in California. On October 12, 2009 Executive Order R-09-010 was adopted that codified Resolution 08-43 into Section 2025, title 13 of the California Code of Regulations. This regulation requires that by the year 2023 all commercial diesel trucks that operate in California

shall meet model year 2010 (Tier 4) or latter emission standards. In the interim period, this regulation provides annual interim targets for fleet owners to meet. This regulation also provides a few exemptions including a onetime per year 3-day pass for trucks registered outside of California.

The CARB is also responsible for regulations pertaining to toxic air contaminants. The Air Toxics "Hot Spots" Information and Assessment Act (AB 2588, 1987, Connelly) was enacted in 1987 as a means to establish a formal air toxics emission inventory risk quantification program. AB 2588, as amended, establishes a process that requires stationary sources to report the type and quantities of certain substances their facilities routinely release into the South Coast Air Basin. The data is ranked by high, intermediate, and low categories, which are determined by: the potency, toxicity, quantity, volume, and proximity of the facility to nearby receptors.

The CARB also proposed interim statewide CEQA thresholds for GHG emissions and released Recommended Approaches for Setting Interim Significance Thresholds for Greenhouse Gases under the California Environmental Quality Act, on October 24, 2008. The State currently has no regulations that establish ambient air quality standards for GHGs. However, the State has passed laws directing CARB to develop actions to reduce GHG emissions, which are listed below.

Assembly Bill 1493

California Assembly Bill 1493 (also known as the Pavley Bill, in reference to its author Fran Pavley) was enacted on July 22, 2002 and required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. In 2004, CARB approved the "Pavley I" regulations limiting the amount of GHGs that may be released from new passenger automobiles that are being phased in between model years 2009 through 2016. This regulation will reduce GHG emissions by 30 percent from 2002 levels by 2016. The second set of regulations "Pavley II" is currently in development and will be phased in between model years 2017 through 2025 and will reduce emissions by 45 percent by the year 2020. The Pavley II standards are being developed by linking the GHG emissions and formerly separate toxic tailpipe emissions standards previously known as the "LEV III" (third stage of the Low Emission Vehicle standards) into a single regulatory framework.

In 2005, the CARB submitted a "waiver" request to the EPA in order to implement the GHG standards and in March of 2008, the U.S. EPA denied the request. However, in June 2009, the decision was reversed and the U.S. EPA granted California the authority to implement the GHG standards for passenger cars, pickup trucks and sport utility vehicles. In September 2009, the Pavley I regulations were adopted by CARB.

Executive Order S-3-05

The California Governor issued Executive Order S-3-05, GHG Emission, in June 2005, which established the following reduction targets:

- 2010: Reduce greenhouse gas emissions to 2000 levels

- 2020: Reduce greenhouse gas emissions to 1990 levels
- 2050: Reduce greenhouse gas emissions to 80 percent below 1990 levels.

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. To comply with the Executive Order, the secretary of CalEPA created the California Climate Action Team (CAT), made up of members from various state agencies and commissions. The team released its first report in March 2006. The report proposed to achieve the targets by building on the voluntary actions of businesses, local governments, and communities and through State incentive and regulatory programs.

Assembly Bill 32

In 2006, the California State Legislature adopted Assembly Bill 32 (AB 32), the California Global Warming Solutions Act of 2006. AB 32 requires CARB, to adopt rules and regulations that would achieve GHG emissions equivalent to statewide levels in 1990 by 2020 through an enforceable statewide emission cap which will be phased in starting in 2012. Emission reductions shall include carbon sequestration projects that would remove carbon from the atmosphere and best management practices that are technologically feasible and cost effective.

On December 6, 2007 CARB released the calculated Year 1990 GHG emissions of 427 million metric tons of CO_2e ($MMTCO_2e$). The 2020 target of 427 $MMTCO_2e$ requires the reduction of 169 $MMTCO_2e$, or approximately 30 percent from the State's projected 2020 business as usual emissions of 596 $MMTCO_2e$ and the reduction of 42 $MMTCO_2e$, or almost 10 percent from the 2002-2004 average GHG emissions. Under AB 32, CARB was required to adopt regulations by January 1, 2011 to achieve reductions in GHGs to meet the 1990 cap by 2020. Early measures CARB took to lower GHG emissions included requiring operators of the largest industrial facilities that emit 25,000 metric tons of CO_2 in a calendar year to submit verification of GHG emissions by December 1, 2010. The CARB Board also approved nine discrete early action measures that include regulations affecting landfills, motor vehicle fuels, refrigerants in cars, port operations and other sources that became enforceable on or before January 1, 2010.

On December 11, 2008 the CARB Board approved a Scoping Plan, with final adoption May 11, 2009 that proposed a variety of measures including direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, a market-based cap-and-trade system, and a fee regulation to fund the program. In current pending litigation, Association of Irritated Residents v. California Air Resources Board, a California State trial court found that the analysis of the alternatives identified in the AB 32 Scoping Plan Functional Equivalent Document (FED) was not sufficient for informed decision-making and public review under CEQA. In response, CARB has appealed the decision. In addition, CARB prepared the *Supplement to the AB 32 Scoping Plan Functional Equivalent Document,* June 13, 2011. On August 24, 2011 CARB recertified the complete AB 32 Scoping Plan Functional Equivalent

Environmental Document revised by the Final Supplement. In December, 2011 the Final Supplement was accepted as sufficient to fulfill the trial court's March order.

Senate Bill 1368

Senate Bill 1368 (SB 1368) is the companion Bill of AB 32 and was adopted September, 2006. SB 1368 requires the California Public Utilities Commission (CPUC) to establish a performance standard for baseload generation of GHG emissions by investor-owned utilities by February 1, 2007 and for local publicly owned utilities by June 30, 2007. These standards could not exceed the GHG emissions rate from a baseload combined-cycle, natural gas-fired plant. Furthermore, the legislation states that all electricity provided to the State, including imported electricity, must be generated by plants that meet the standards set by California Public Utilities Commission (CPUC) and California Energy Commission (CEC).

Executive Order S-1-07

Executive Order S-1-07 was issued in 2007 and proclaims that the transportation sector is the main source of GHG emissions in the State, since it generates more than 40 percent of the State's GHG emissions. It establishes a goal to reduce the carbon intensity of transportation fuels sold in the State by at least ten percent by 2020. This Order also directs CARB to determine whether this Low Carbon Fuel Standard (LCFS) could be adopted as a discrete early-action measure as part of the effort to meet the mandates in AB 32.

On April 23, 2009 CARB approved the proposed regulation to implement the low carbon fuel standard. The low carbon fuel standard is anticipated to reduce GHG emissions by about 16 MMT per year by 2020. The low carbon fuel standard is designed to provide a framework that uses market mechanisms to spur the steady introduction of lower carbon fuels. The framework establishes performance standards that fuel producers and importers must meet each year beginning in 2011. Separate standards are established for gasoline and diesel fuels and the alternative fuels that can replace each. The standards are "back-loaded", with more reductions required in the last five years, than during the first five years. This schedule allows for the development of advanced fuels that are lower in carbon than today's fuels and the market penetration of plug-in hybrid electric vehicles, battery electric vehicles, fuel cell vehicles, and flexible fuel vehicles. It is anticipated that compliance with the low carbon fuel standard will be based on a combination of both lower carbon fuels and more efficient vehicles.

Reformulated gasoline mixed with corn-derived ethanol at ten percent by volume and low sulfur diesel fuel represent the baseline fuels. Lower carbon fuels may be ethanol, biodiesel, renewable diesel, or blends of these fuels with gasoline or diesel as appropriate. Compressed natural gas and liquefied natural gas also may be low carbon fuels. Hydrogen and electricity, when used in fuel cells or electric vehicles are also considered as low carbon fuels for the low carbon fuel standard.

Senate Bill 97

Senate Bill 97 (SB 97) was adopted August 2007 and acknowledges that climate change is a prominent environmental issue that requires analysis under CEQA. SB 97 directed the Governor's Office of Planning and Research (OPR), which is part of the State Natural Resources Agency, to prepare, develop, and transmit to CARB guidelines for the feasible mitigation of GHG emissions or the effects of GHG emissions, as required by CEQA, by July 1, 2009. The Natural Resources Agency was required to certify and adopt those guidelines by January 1, 2010.

Pursuant to the requirements of SB 97 as stated above, on December 30, 2009 the Natural Resources Agency adopted amendments to the state CEQA guidelines that address GHG emissions. The CEQA Guidelines Amendments changed 14 sections of the CEQA Guidelines and incorporate GHG language throughout the Guidelines. However, no GHG emissions thresholds of significance were provided and no specific mitigation measures were identified. The GHG emission reduction amendments went into effect on March 18, 2010 and are summarized below:

- Climate action plans and other greenhouse gas reduction plans can be used to determine whether a project has significant impacts, based upon its compliance with the plan.
- Local governments are encouraged to quantify the greenhouse gas emissions of proposed projects, noting that they have the freedom to select the models and methodologies that best meet their needs and circumstances. The section also recommends consideration of several qualitative factors that may be used in the determination of significance, such as the extent to which the given project complies with state, regional, or local GHG reduction plans and policies. OPR does not set or dictate specific thresholds of significance. Consistent with existing CEQA Guidelines, OPR encourages local governments to develop and publish their own thresholds of significance for GHG impacts assessment.
- When creating their own thresholds of significance, local governments may consider the thresholds of significance adopted or recommended by other public agencies, or recommended by experts.
- New amendments include guidelines for determining methods to mitigate the effects of greenhouse gas emissions in Appendix F of the CEQA Guidelines.
- OPR is clear to state that "to qualify as mitigation, specific measures from an existing plan must be identified and incorporated into the project; general compliance with a plan, by itself, is not mitigation."
- OPR's emphasizes the advantages of analyzing GHG impacts on an institutional, programmatic level. OPR therefore approves tiering of environmental analyses and highlights some benefits of such an approach.
- Environmental impact reports (EIRs) must specifically consider a project's energy use and energy efficiency potential.

Senate Bills 1078, 107, and X1-2 and Executive Orders S-14-08 and S-21-09
Senate Bill 1078 (SB 1078) requires retail sellers of electricity, including investor-owned utilities and community choice aggregators, to provide at least 20 percent of their supply from renewable sources by 2017. Senate Bill 107 (SB 107) changed the target date to 2010. Executive Order S-14-08 was signed on November 2008 and expands the State's Renewable Energy Standard to 33 percent renewable energy by 2020. Executive Order S-21-09 directed CARB to adopt regulations by July 31, 2010 to enforce S-14-08. Senate Bill X1-2 codifies the 33 percent renewable energy requirement by 2020.

Senate Bill 375
Senate Bill 375 (SB 375) was adopted September 2008 and aligns regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. SB 375 requires Metropolitan Planning Organizations (MPO) to adopt a sustainable communities strategy (SCS) or alternate planning strategy (APS) that will prescribe land use allocation in that MPOs Regional Transportation Plan (RTP). CARB, in consultation with each MPO, will provide each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region 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. CARB is also charged with reviewing each MPO's sustainable communities strategy or alternate planning strategy for consistency with its assigned targets.

The proposed project is located within the Southern California Association of Governments (SCAG) jurisdiction, which has authority to develop the SCS or APS. For the SCAG region, the targets set by CARB are at eight percent below 2005 per capita GHG emissions levels by 2020 and 13 percent below 2005 per capita GHG emissions levels by 2035. On April 4, 2012, SCAG adopted the 2012-2035 Regional Transportation Plan / Sustainable Communities Strategy (RTP/SCS), which meets the CARB emission reduction requirements. The Housing Element Update is required by the State to be completed within 18 months after RTP/SCS adoption or by October 2013.

City and County land use policies, including General Plans, are not required to be consistent with the RTP and associated SCS or APS. However, new provisions of CEQA would incentivize, through streamlining and other provisions, qualified projects that are consistent with an approved SCS or APS and categorized as "transit priority projects."

Senate Bill X7-7
Senate Bill X7-7 (SB X7-7), enacted on November 9, 2009, mandates water conservation targets and efficiency improvements for urban and agricultural water suppliers. SB X7-7 requires the Department of Water Resources (DWR) to develop a task force and technical panel to develop alternative best management practices for the water sector. In addition SB X7-7 required the DWR to develop criteria for baseline uses for residential, commercial, and

industrial uses for both indoor and landscaped area uses. The DWR was also required to develop targets and regulations that achieve a statewide 20 percent reduction in water usage.

Assembly Bill 939 and Senate Bill 1374
Assembly Bill 939 (AB 939) requires that each jurisdiction in California to divert at least 50 percent of its waste away from landfills, whether through waste reduction, recycling or other means. Senate Bill 1374 (SB 1374) requires the California Integrated Waste Management Board to adopt a model ordinance by March 1, 2004 suitable for adoption by any local agency to require 50 to 75 percent diversion of construction and demolition of waste materials from landfills.

California Code of Regulations (CCR) Title 24, Part 6
CCR Title 24, Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings (Title 24) were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. Although it was not originally intended to reduce GHG emissions, electricity production by fossil fuels results in GHG emissions and energy efficient buildings require less electricity. Therefore, increased energy efficiency results in decreased GHG emissions.

The Energy Commission adopted 2008 Standards on April 23, 2008 and Building Standards Commission approved them for publication on September 11, 2008. These updates became effective on August 1, 2009.

California Code of Regulations (CCR) Title 24, Part 11
CCR Title 24, Part 11: California Green Building Standards (Title 24) became effective in 2001 in response to continued efforts to reduce GHG emissions associated with energy consumption. CCR Title 24, Part 11 now require that new buildings reduce water consumption, employ building commissioning to increase building system efficiencies, divert construction waste from landfills, and install low pollutant-emitting finish materials. One focus of CCR Title 24, Part 11 is water conservation measures, which reduce GHG emissions by reducing electrical consumption associated with pumping and treating water. CCR Title 24, Part 11 has approximately 52 nonresidential mandatory measures and an additional 130 provisions for optional use. Some key mandatory measures for commercial occupancies include specified parking for clean air vehicles, a 20 percent reduction of potable water use within buildings, a 50 percent construction waste diversion from landfills, use of building finish materials that emit low levels of volatile organic compounds, and commissioning for new, nonresidential buildings over 10,000 square feet.

4. Regional

The SCAQMD is the agency principally responsible for comprehensive air pollution control in the South Coast Air Basin. To that end, as a regional agency, the SCAQMD

works directly with the Southern California Association of Governments (SCAG), county transportation commissions, and local governments and cooperates actively with all federal and state agencies. SCAMD defines a "sensitive receptor" as a land use such as residences, schools, child care centers, athletic facilities, playgrounds, retirement homes and convalescent homes.

South Coast Air Quality Management District

The SCAQMD develops rules and regulations, establishes permitting requirements for stationary sources, inspects emission sources, and enforces such measures through educational programs or fines, when necessary. The SCAQMD is directly responsible for reducing emissions from stationary, mobile, and indirect sources. It has responded to this requirement by preparing a sequence of AQMPs. A revised draft of the 2012 AQMP was released on September, 2012, and was adopted by the SCAQMD Board on December 7, 2012. The 2012 AQMP is now awaiting approval from CARB and the U.S. EPA. The 2012 AQMP is being prepared in order to meet the federal Clean Air Act requirement that all 24-hour PM2.5 non-attainment areas prepare a SIP, which was required to be submitted to the U.S. EPA by December 14, 2012 and demonstrate attainment with the 24-hour PM2.5 standard by 2014. The 2012 AQMP demonstrates attainment of the federal 24-hour PM2.5 standard by 2014 in the Basin through adoption of all feasible measures, and therefore, no extension of the attainment date is needed.

The 2007 AQMP demonstrated attainment with the 1997 8-hour ozone (80 ppb) standard by 2023, through implementation of future improvements in control techniques and technologies. These “black box” emissions reductions represent 65 percent of the remaining NOx emission reductions by 2023 in order to show attainment with the 1997 8-hour ozone NAAQS. Given the magnitude of these needed emissions reductions, additional NOx control measures have been provided in this AQMP even though the primary purpose of this AQMP is to show compliance with 24-hour PM2.5 emissions standards.

The 2012 AQMP is designed to satisfy the California Clean Air Act’s (CCAA) emission reductions of 5 percent per year or adoption of all feasible measures requirements and fulfill the EPA’s requirement to update transportation conformity emissions budgets based on the latest approved motor vehicle emissions model and planning assumptions. The 2012 AQMP updates and revises the previous 2007 AQMP. The 2012 AQMP was prepared to comply with the Federal and State CCAA and amendments, to accommodate growth, to reduce the high pollutant levels in the Basin, to meet Federal and State ambient air quality standards, and to minimize the fiscal impact that pollution control measures have on the local economy. The purpose of the 2012 AQMP for the Basin is to set forth a comprehensive program that will lead this area into com24pliance with all federal and state air-quality planning requirements.

The 2012 AQMP builds upon the approaches taken in the 2007 AQMP for the attainment of federal PM and ozone standards, and highlights the significant amount of reductions needed and the need to engage in interagency coordinated planning of mobile sources to meet all of the federal criteria pollutant standards. Compared with

the 2007 AQMP, the 2012 AQMP utilizes revised emissions inventory projections that use 2008 as the base year. On-road emissions are calculated using CARB EMFAC2011 emission factors and the transportation activity data provided by SCAG from their 2012 Regional Transportation Plan (2012 RTP). Off-road emissions were updated using CARB's 2011 In-Use Off-Road Fleet Inventory Model. Since the 2007 AQMP was finalized new area source categories such as LPG transmission losses, storage tank and pipeline cleaning and degassing, and architectural colorants, were created and included in the emissions inventories. The 2012 AQMP also includes analysis of several additional sources of GHG emissions such as landfills and could also assist in reaching the GHG target goals in the AB32 Scoping Plan.

The control measures in the 2012 AQMP consist of three components: 1) Basin-wide and episodic short-term PM2.5 measures; 2) Section 182(e)(5) implementation measures; and 3) Transportation control measures. Many of the control measures are not based on command and control regulations, but instead focus on incentives, outreach, and education to bring about emissions reductions through voluntary participation and behavioral changes. More broadly, a transition to zero- and near-zero emission technologies is necessary to meet 2023 and 2032 air quality standards and 2050 climate goals. Many of the same technologies will address both air quality and climate needs.

During construction and operation, the project must comply with applicable rules and regulations. The following are rules the project may be required to comply with, either directly, or indirectly:

SCAQMD Rule 402 prohibits a person from discharging from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

SCAQMD Rule 403 governs emissions of fugitive dust during construction and operation activities. Compliance with this rule is achieved through application of standard Best Management Practices, such as application of water or chemical stabilizers to disturbed soils, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 miles per hour, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph, and establishing a permanent ground cover on finished sites.

Rule 403 requires that fugitive dust be controlled with best available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, SCAQMD Rule 403 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off site. Applicable dust suppression techniques from Rule 403 are summarized below. Implementation of these dust suppression techniques can reduce the fugitive dust generation (and thus the PM_{10} component). Compliance with these

rules would reduce impacts on nearby sensitive receptors. Rule 403 measures may include but are not limited to the following:

- Apply nontoxic chemical soil stabilizers according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for 10 days or more).

- Water active sites at least three times daily. (Locations where grading is to occur will be thoroughly watered prior to earthmoving.)

- Cover all trucks hauling dirt, sand, soil, or other loose materials, or maintain at least 0.6 meters (2 feet) of freeboard (vertical space between the top of the load and top of the trailer) in accordance with the requirements of California Vehicle Code section 23114.

- Reduce traffic speeds on all unpaved roads to 15 miles per hour (mph) or less.

- Suspension of all grading activities when wind speeds (including instantaneous wind gusts) exceed 25 mph.

- Bumper strips or similar best management practices shall be provided where vehicles enter and exit the construction site onto paved roads or wash off trucks and any equipment leaving the site each trip.

- Replanting disturbed areas as soon as practical.

- During all construction activities, construction contractors shall sweep on-site and off-site streets if silt is carried to adjacent public thoroughfares, to reduce the amount of particulate matter on public streets. All sweepers shall be compliant with SCAQMD Rule 1186.1, Less Polluting Sweepers.

SCAQMD Rule 445 prohibits permanently installed wood burning devices into any new development. A wood burning device means any fireplace, wood burning heater, or pellet-fueled wood heater, or any similarly enclosed, permanently installed, indoor or outdoor device burning any solid fuel for aesthetic or space-heating purposes, which has a heat input of less than one million British thermal units per hour.

SCAQMD Rule 481 applies to all spray painting and spray coating operations and equipment. The rule states that a person shall not use or operate any spray painting or spray coating equipment unless one of the following conditions is met:

(1) The spray coating equipment is operated inside a control enclosure, which is approved by the Executive Officer. Any control enclosure for which an application for permit for new construction, alteration, or change of ownership or location is submitted after the date of adoption of this rule shall be exhausted only through filters at a design face velocity not less than 100 feet per minute

nor greater than 300 feet per minute, or through a water wash system designed to be equally effective for the purpose of air pollution control.

(2) Coatings are applied with high-volume low-pressure, electrostatic and/or airless spray equipment.

(3) An alternative method of coating application or control is used which has effectiveness equal to or greater than the equipment specified in the rule.

SCAQMD Rule 1108 governs the sale, use, and manufacturing of asphalt and limits the volatile organic compound (VOC) content in asphalt used in the South Coast Air Basin. This rule would regulate the VOC content of asphalt used during construction. Therefore, all asphalt used during construction of the project must comply with SCAQMD Rule 1108.

SCAQMD Rule 1113 governs the sale, use, and manufacturing of architectural coating and limits the VOC content in paints and paint solvents. This rule regulates the VOC content of paints available during construction. Therefore, all paints and solvents used during construction and operation of the project must comply with SCAQMD Rule 1113.

SCAQMD Rule 1143 governs the manufacture, sale, and use of paint thinners and solvents used in thinning of coating materials, cleaning of coating application equipment, and other solvent cleaning operations by limiting their VOC content. This rule regulates the VOC content of solvents used during construction. Solvents used during the construction phase must comply with this rule.

SCAQMD Rule 1186 limits the presence of fugitive dust on paved and unpaved roads and sets certification protocols and requirements for street sweepers that are under contract to provide sweeping services to any federal, state, county, agency or special district such as water, air, sanitation, transit, or school district.

SCAQMD Rule 1303 governs the permitting of re-located or new major emission sources, requiring Best Available Control Measures and setting significance limits for PM_{10} among other pollutants.

SCAQMD Rule 1401, New Source Review of Toxic Air Contaminants, specifies limits for maximum individual cancer risk, cancer burden, and non-cancer acute and chronic hazard index from new permit units, relocations, or modifications to existing permit units, which emit toxic air contaminants.

SCAQMD Rule 2202, On-Road Motor Vehicle Mitigation Options, is to provide employers with a menu of options to reduce mobile source emissions generated from employee commutes, to comply with federal and state Clean Air Act requirements, Health & Safety Code Section 40458, and Section 182(d)(1)(B) of the federal Clean Air Act. It applies to any employer who employs 250 or more employees on a full or part-time basis at a worksite for a consecutive six-month period calculated as a monthly average.

In order to assist local agencies with direction on GHG emissions, the SCAQMD organized a working group and adopted Rules 2700, 2701, 2702, and 3002 which are described below.

Rules 2700 and 2701

The SCAQMD adopted Rules 2700 and 2701 on December 5, 2008, which establishes the administrative structure for a voluntary program designed to quantify GHG emission reductions. Rule 2701 provides specific protocols for private parties to follow to generate certified GHG emission reductions for projects within the district. Approved protocols include forest projects, urban tree planting, and manure management. The SCAQMD is currently developing additional protocols for other reduction measures. For a GHG emission reduction project to qualify, it must be verified and certified by the SCAQMD Executive Officer, who has 60 days to approve or deny the Plan. Upon approval of the Plan, the Executive Officer issues required to issue a certified receipt of the GHG emission reductions within 90 days.

Rule 2702

The SCAQMD adopted Rule 2702 on February 6, 2009, which establishes a voluntary air quality investment program from which SCAQMD can collect funds from parties that desire certified GHG emission reductions, pool those funds, and use them to purchase or fund GHG emission reduction projects within two years, unless extended by the Governing Board. Priority will be given to projects that result in co-benefit emission reductions of GHG emissions and criteria or toxic air pollutants within environmental justice areas. Further, this voluntary program may compete with the cap-and-trade program identified for implementation in CARB's Scoping Plan, or a Federal cap and trade program.

Rule 3002

The SCAQMD amended Rule 3002 on November 5, 2010 to include facilities that emit greater than 100,000 tons per year of CO_2e are required to apply for a Title V permit by July 1, 2011. A Title V permit is for facilities that are considered major sources of emissions.

Although the SCAQMD is responsible for regional air quality planning efforts, it does not have the authority to directly regulate air quality issues associated with plans and new development projects throughout the South Coast Air Basin. Instead, this is controlled through local jurisdictions in accordance to the California Environmental Quality Act (CEQA). In order to assist local jurisdictions with air quality compliance issues the CEQA Air Quality Handbook (SCAQMD CEQA Handbook), prepared by the SCAQMD, 1993, with the most current updates found at http://www.aqmd.gov/ceqa/hdbk.html, was developed in accordance with the projections and programs of the AQMP. The purpose of the SCAQMD CEQA Handbook is to assist Lead Agencies, as well as consultants, project proponents, and other interested parties in evaluating a proposed project's potential air quality impacts. Specifically, the SCAQMD CEQA Handbook explains the procedures that the SCAQMD recommends be followed for the environmental review process required by CEQA. The SCAQMD CEQA Handbook provides direction on how to evaluate potential air

quality impacts, how to determine whether these impacts are significant, and how to mitigate these impacts. The SCAQMD intends that by providing this guidance, the air quality impacts of plans and development proposals will be analyzed accurately and consistently throughout the South Coast Air Basin, and adverse impacts will be minimized.

SCAQMD Stakeholder Working Group

Since neither CARB nor the OPR has developed GHG emissions threshold, the SCAQMD formed a Working Group to develop significance thresholds related to GHG emissions. At the September 28, 2010 Working Group meeting, the SCAQMD released its most current version of the draft GHG emissions thresholds, which recommends a tiered approach that provides a quantitative annual thresholds of 10,000 MTCO2e for industrial uses.

Southern California Association of Governments

The SCAG is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino and Imperial Counties and addresses regional issues relating to transportation, the economy, community development and the environment. SCAG is the Federally designated MPO for the majority of the southern California region and is the largest MPO in the nation. With respect to air quality planning, SCAG has prepared the Regional Transportation Plan and Regional Transportation Improvement Plan (RTIP), which addresses regional development and growth forecasts. These plans form the basis for the land use and transportation components of the AQMP, which are utilized in the preparation of air quality forecasts and in the consistency analysis included in the AQMP. The Regional Transportation Plan, Regional Transportation Improvement Plan, and AQMP are based on projections originating within the City and County General Plans.

5. Local – County of San Bernardino

Local jurisdictions, such as the County of San Bernardino, have the authority and responsibility to reduce air pollution through its police power and decision-making authority. Specifically, the County is responsible for the assessment and mitigation of air emissions resulting from its land use decisions. The County is also responsible for the implementation of transportation control measures as outlined in the 2007 AQMP. Examples of such measures include bus turnouts, energy-efficient streetlights, and synchronized traffic signals. In accordance with CEQA requirements and the CEQA review process, the County assesses the air quality impacts of new development projects, requires mitigation of potentially significant air quality impacts by conditioning discretionary permits, and monitors and enforces implementation of such mitigation.

In accordance with the CEQA requirements, the County does not, however, have the expertise to develop plans, programs, procedures, and methodologies to ensure that air quality within the County and region will meet federal and state standards. Instead, the County relies on the expertise of the SCAQMD and utilizes the SCAQMD CEQA Handbook as the guidance document for the environmental review of plans and development proposals within its jurisdiction.

Goal CO 4 from the County of San Bernardino 2007 General Plan, March 13, 2007, contains the following air quality-related policies that are applicable to the proposed project:

CO 4.2 Coordinate air quality improvements technologies with the SCAQMD and the Mojave Air Quality Management District (MAQMD) to improve air quality through reductions in pollutants from the region.

CO 4.4 Because congestion resulting from growth is expected to result in a significant increase in the air quality degradation, the County may manage growth by insuring the timely provision of infrastructure to serve new development.

CO 4.5 Reduce emissions through reduced energy consumption.

CO 4.6 Provide incentives such as preferential parking for alternative-fuel vehicles (e.g., CNG or hydrogen).

B. Monitored Air Quality

The air quality at any site is dependent on the regional air quality and local pollutant sources. Regional air quality is determined by the release of pollutants throughout the air basin. Estimates of the existing emissions in the Basin provided in the Final 2012 Air Quality Management Plan, prepared by SCAQMD, December 2012, indicate that collectively, mobile sources account for 59 percent of the VOC, 88 percent of the NOx emissions and 40 percent of directly emitted PM2.5, with another 10 percent of PM2.5 from road dust.

The SCAQMD has divided the South Coast Air Basin into 38 air-monitoring areas with a designated ambient air monitoring station representative of each area. The project site is located in Central San Bernardino Valley Air Monitoring Area (Area 34), which is located in San Bernardino County and covers from Fontana to Highland. The nearest air monitoring station to the project site is the San Bernardino 4th Street Monitoring Station (San Bernardino Station). The San Bernardino Station is located approximately 4.1 miles northwest of the project site at 24302 East 4th Street, San Bernardino. Table 5 presents the monitored pollutant levels from the San Bernardino Station. However, it should be noted that due to the air monitoring station distance from the project site, recorded air pollution levels at the air monitoring station reflect with varying degrees of accuracy, local air quality conditions at the project site.

The monitoring data presented in Table 5 shows that ozone and particulate matter (PM10 and PM2.5) are the air pollutants of primary concern in the project area, which are detailed below.

Ozone

Ozone is a secondary pollutant as it is not directly emitted. Ozone is the result of chemical reactions between other pollutants, most importantly hydrocarbons and NO_2, which occur only in the presence of bright sunlight. Pollutants emitted from upwind cities react during transport downwind to produce the oxidant concentrations experienced in the area. Many areas of the SCAQMD contribute to the ozone levels experienced at the monitoring station, with the more significant areas being those directly upwind.

Carbon Monoxide

CO is another important pollutant that is due mainly to motor vehicles. The San Bernardino Station did not record an exceedance of the state or federal 1-hour or 8-hour CO standards for the last three years.

Nitrogen Dioxide

The San Bernardino Station did not record an exceedance of the State or Federal NO_2 standards for the last three years.

Particulate Matter

According to the EPA, some people are much more sensitive than others to breathing fine particles (PM10 and PM2.5). People with influenza, chronic respiratory and cardiovascular diseases, and the elderly may suffer worsening illness and premature death due to breathing these fine particles. People with bronchitis can expect aggravated symptoms from breathing in fine particles. Children may experience decline in lung function due to breathing in PM10 and PM2.5. Other groups considered sensitive are smokers and people who cannot breathe well through their noses. Exercising athletes are also considered sensitive, because many breathe through their mouths during exercise.

Table 3

State and Federal Criteria Pollutant Standards

Air Pollutant	Concentration / Averaging Time		Most Relevant Effects
	California Standards	Federal Primary Standards	
Ozone (O_3)	0.09 ppm/1-hour 0.07 ppm/8-hour	0.075 ppm/8-hour	(a) Decline in pulmonary function and localized lung edema in humans and animals; (b) Risk to public health implied by alterations in pulmonary morphology and host defense in animals; (c) Increased mortality risk; (d) Risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (e) Vegetation damage; and (f) Property damage.
Carbon Monoxide (CO)	20.0 ppm/1-hour 9.0 ppm/8-hour	35.0 ppm/1-hour 9.0 ppm/8-hour	(a) Aggravation of angina pectoris and other aspects of coronary heart disease; (b) Decreased exercise tolerance in persons with peripheral vascular disease and lung disease; (c) Impairment of central nervous system functions; and (d) Possible increased risk to fetuses.
Nitrogen Dioxide (NO_2)	0.18 ppm/1-hour 0.03 ppm/annual	100 ppb/1-hour 0.053 ppm/annual	(a) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; (b) Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; and (c) Contribution to atmospheric discoloration.
Sulfur Dioxide (SO_2)	0.25 ppm/1-hour 0.04 ppm/24-hour	75 ppb/1-hour 0.14 ppm/annual	(a) Bronchoconstriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma.
Suspended Particulate Matter (PM_{10})	50 µg/m^3/24-hour 20 µg/m^3/annual	150 µg/m^3/24-hour	(a) Exacerbation of symptoms in sensitive patients with respiratory or cardiovascular disease; (b) Declines in pulmonary function growth in children; (c) Increased risk of premature death from heart or lung diseases in elderly.
Suspended Particulate Matter ($PM_{2.5}$)	12 µg/m^3 / annual	35 µg/m^3/24-hour 12 µg/m^3/annual	
Sulfates	25 µg/m^3/24-hour	No Federal Standards	(a) Decrease in ventilatory function; (b) Aggravation of asthmatic symptoms; (c) Aggravation of cardio-pulmonary disease; (d) Vegetation damage; (e) Degradation of visibility; (f) property damage.
Lead	1.5 µg/m^3/30-day	0.15 µg/m^3/3-month rolling	(a) Learning disabilities; (b) Impairment of blood formation and nerve conduction.
Visibility Reducing Particles	Extinction coefficient of 0.23 per kilometer-visibility of 10 miles or more due to particles when humidity is less than 70 percent.	No Federal Standards	Visibility impairment on days when relative humidity is less than 70 percent.

[1] Source: http://www.arb.ca.gov/research/aaqs/aaqs2.pdf .

Table 4

South Coast Air Basin Attainment Status

Pollutant	Averaging Time	National Standards[1]	Attainment Date[2]	California Standards[3]
1979 1-Hour Ozone[4]	1-Hour (0.12 ppm)	Nonattainment (Extreme)	11/15/2010 (Not attained[4])	Extreme Nonattainment
1997 8-Hour Ozone[5]	8-Hour (0.08 ppm)	Nonattainment (Extreme)	6/15/2024	Nonattainment
2008 8-Hour Ozone	8-Hour (0.075 ppm)	Nonattainment (Extreme)	12/31/2032	
CO	1-Hour (35 ppm) 8-Hour (9 ppm)	Attainment (Maintenance)	6/11/2007 (Attained)	Maintenance
NO_2[6]	1-Hour (100 ppb) Annual (0.053 ppm)	Attainment (Maintenance)	9/22/1998 (Attained)	Attainment
SO_2[7]	1-Hour (75 ppb)	Designations Pending	Pending	Attainment
	24-Hour (0.14 ppm) Annual (0.03 ppm)	Unclassifiable/ Attainment	3/19/1979 (Attained)	
PM10	24-Hour (150 µg/m^3)	Nonattainment (Serious)[8]	12/31/2006 (Redesignation request submitted)[8]	Nonattainment
PM2.5	24-Hour (35 µg/m^3)	Unclassifiable/ Attainment	Attained	Unclassified
Lead	3-Months Rolling (0.15 µg/m^3)	Nonattainment (Partial)[9]	12/31/2015	Nonattainment

[1] Obtained from Draft 2012 AQMP, SCAQMD, 2012. EPA often only declares Nonattainment areas; everywhere else is listed as Unclassified/Attainment or Unclassifiable.

[2] A design value below the NAAQS for data through the full year or smog season prior to the attainment date is typically required for attainment demonstration.

[3] Obtained from http://www.arb.ca.gov/desig/adm/adm.htm.

[4] 1-hour O_3 standard (0.13 ppm) was revoked, effective June 15, 2005; however, the Basin has not attained this standard based on 2008-2010 data has some continuing obligations under the former standard.

[5] 1997 8-hour O_3 standard (0.08 ppm) was reduced (0.075 ppm), effective May 27, 2008; the 1997 O3 standard and most related implementation rules remain in place until the 1997 standard is revoked by U.S. EPA.

[6] New NO_2 1-hour standard, effective August 2, 2010; attainment designations January 20, 2012; annual NO_2 standard retained.

[7] The 1971 annual and 24-hour SO_2 standards were revoked, effective August 23, 2010; however, these 1971 standards will remain in effect until one year after U.S. EPA promulgates area designations for the 2010 SO_2 1-hour standard. Area designations expected in 2012, with SSAB designated Unclassifiable/Attainment.

[8] Annual PM10 standard was revoked, effective December 18, 2006; redesignation request to Attainment of the 24-hour PM10 standard is pending with U.S. EPA

[9] Partial Nonattainment designation - Los Angeles County portion of Basin only.

Table 5

Local Area Air Quality Levels from the San Bernardino Air Monitoring Station [1]

Pollutant (Standard)[2]	Year		
	2011	2012	2013
Ozone:			
Maximum 1-Hour Concentration (ppm)	0.135	0.124	0.139
Days > CAAQS (0.09 ppm)	**40**	**41**	**22**
Maximum 8-Hour Concentration (ppm)	0.121	0.109	0.112
Days > NAAQS (0.08 ppm)	**39**	**54**	**36**
Days > CAAQS (0.070 ppm)	**66**	**77**	**53**
Carbon Monoxide:			
Maximum 1-Hour Concentration (ppm)	1.9	3.1	--[3]
Days > NAAQS (20 ppm)	0	0	0
Maximum 8-Hour Concentration (ppm)	1.74	1.64	--[3]
Days > NAAQS (9 ppm)	0	0	0
Nitrogen Dioxide:			
Maximum 1-Hour Concentration (ppb)	61.900	67.000	72.100
Days > NAAQS (0.25 ppm)	0	0	0
Inhalable Particulates (PM10):			
Maximum 24-Hour Concentration (ug/m^3)	128.4	68.1	177.3
Days > NAAQS (150 ug/m^3)	0	0	1
Days > CAAQS (50 ug/m^3)	2	1	2
Annual Arithmetic Mean (AAM) (ug/m^3)	31.2	32.0	32.7
Annual > NAAQS (50 ug/m^3)	no	no	no
Annual > CAAQS (20 ug/m^3)	**yes**	**yes**	**yes**
Ultra-Fine Particulates (PM2.5):			
Maximum 24-Hour Concentration (pg/m^3)	65.0	34.8	55.3
Days > NAAQS (35 ug/m^3)	2	0	1
Annual Arithmetic Mean (AAM) (ug/m^3)	--[3]	11.7	11.4
Annual > NAAQS (15 ug/m3)	--[3]	no	no
Annual > CAAQS (12 ug/m^3)	--[3]	no	no

[1] Source: http://www.arb.ca.gov/adam/

[2] CAAQS = California Ambient Air Quality Standard; NAAQS = National Ambient Air Quality Standard; ppm = parts per million

[3] No data available.

V. Air Quality Standards

A. Regional Air Quality

Many air quality impacts that derive from dispersed mobile sources, which are the dominate pollution generators in the basin, often occurs hours later and miles away after photochemical processes have converted primary exhaust pollutants into secondary contaminants such as ozone. The incremental regional air quality impact of an individual project is generally very small and difficult to measure. Therefore, the SCAQMD has developed significance thresholds based on the volume of pollution emitted rather than on actual ambient air quality because the direct air quality impact of a project is not quantifiable on a regional scale. The SCAQMD CEQA Handbook states that any project in the South Coast Air Basin with daily emissions that exceed any of the identified significance thresholds should be considered as having an individually and cumulatively significant air quality impact. For the purposes to this air quality impact analysis, a regional air quality impact would be considered significant if emissions exceed the SCAQMD significance thresholds identified in Table 6.

B. Local Air Quality

Project-related construction air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. In order to assess local air quality impacts the SCAQMD has developed Localized Significant Thresholds (LSTs) to assess the project-related air emissions in the project vicinity. The SCAQMD has also provided Final Localized Significant Threshold Methodology (LST Methodology), July 2008, which details the methodology to analyze local air emission impacts. The Localized Significant Threshold Methodology found that the primary emissions of concern are NO_2, CO, PM10, and PM2.5.

The significance thresholds for the local emissions of NO_2 and CO are determined by subtracting the highest background concentration from the last three years of these pollutants from Table 5 above, from the most restrictive ambient air quality standards for these pollutants that are outlined in the Localized Significant Thresholds. Table 6 shows the Localized Significant Thresholds for NO_2, CO, and PM10 and PM2.5.

C. Toxic Air Contaminants

According to the SCAQMD CEQA Handbook, any project that has the potential to expose the public to toxic air contaminants in excess of the following thresholds would be considered to have a significant air quality impact:

- If the Maximum Incremental Cancer Risk is 10 in one million or greater; or
- Toxic air contaminants from the proposed project would result in a Hazard Index increase of 1 or greater.

In order to determine if the proposed project may have a significant impact related to hazardous air pollutants (HAP), the Health Risk Assessment Guidance for analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis, (Diesel Analysis), prepared by SCAQMD, August 2003, recommends that if the proposed project is anticipated to create hazardous air pollutants through stationary sources or regular operations of diesel trucks on the project site, then the proximity of the nearest receptors to the source of the hazardous air pollutants and the toxicity of the hazardous air pollutants should be analyzed through a comprehensive facility-wide health risk assessment (HRA).

D. Odor Impacts

The SCAQMD CEQA Handbook states that an odor impact would occur if the proposed project creates an odor nuisance pursuant to SCAQMD Rule 402, which states:

> "A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.
>
> The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals."

If the proposed project results in a violation of Rule 402 with regards to odor impacts, then the proposed project would create a significant odor impact.

E. Greenhouse Gases

The County of San Bernardino GHG Emissions Reduction Plan (GHG Plan) requires the reduction of 159,423 metric tons of CO_2 equivalent emissions ($MTCO_2e$) per year from new development by 2020 as compared to the unmitigated conditions. The Greenhouse Gas Emissions Development Review Processes (GHG Review Processes), prepared for County of San Bernardino, August 2011, provides project level direction on how the County plans to achieve the reduction in GHG Emissions. The GHG Review Processes determined that projects that do not exceed 3,000 $MTCO_2e$ per year will be consistent with the GHG Plan and determined to have a less than significant individual and cumulative impact for GHG emissions. For projects that exceed 3,000 $MTCO_2e$ per year of GHG emissions the applicant may choose to either; utilize the Screening Tables, which consist of a list of mitigation measures, rated for their effectiveness and provide mitigation to reach 100 points; or provide a detailed GHG analysis that quantifies project design features or mitigation measures in order to reduce GHG emissions by 31 percent or more over year 2020 unmitigated GHG emissions levels.

Table 6

SCAQMD Air Quality Significance Thresholds[1]

Mass Daily Thresholds		
Pollutant	Construction (lbs/day)	Operation (lbs/day)
NOx	100	55
VOC	75	55
PM10	150	150
PM2.5	55	55
SOx	150	150
CO	550	550
Lead	3	3

Toxic Air Contaminants, Odor and GHG Thresholds	
TACs	Maximum Incremental Cancer Risk ≥ 10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas ≥ 1 in 1 million) Chronic & Acute Hazard Index > 1.0 (project increment)
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402
GHG	10,000 MT/yr CO_2e for industrial facilities

Local Air Quality Thresholds	
Pollutant	SCAQMD Local Thresholds
NO_2 -1-hour average	0.18 ppm (338 µg/m^3)
PM10 -24-hour average Construction Operations	 10.4 µg/m^3 2.5 ug/m^3
PM2.5 -24-hour average Construction Operations	 10.4 µg/m^3 2.5 µg/m^3
SO2 1-hour average 24-hour average	 0.25 ppm 0.04 ppm
CO 1-hour average 8-hour average	 20 ppm (23,000 µg/m^3) 9 ppm (10,000 µg/m^3)
Lead 30-day average Rolling 3-month average Quarterly average	 1.5 µg/m^3 0.15 µg/m^3 1.5 µg/m^3

[1] Source: http://www.aqmd.gov/ceqa/handbook/signthres.pdf

VI. Short-Term Construction Impacts

Construction activities associated with the proposed project would have the potential to generate air emissions, toxic air contaminant emissions, and odor impacts. Assumptions for the phasing, duration, and required equipment for the construction of the proposed project were obtained from the project applicant. The construction activities for the proposed project are anticipated to include: grading of 14.81 acres, construction of 313,470 square feet of building space, paving a 238 space parking lot, and application of architectural coatings. The proposed project is anticipated to start construction early 2014 and would be constructed over approximately 21 months.

A. Construction-Related Regional Impacts

The construction-related regional air quality impacts have been analyzed for both criteria pollutants and GHGs.

1. Construction-Related Criteria Pollutants Analysis

The following provides a discussion of the methodology used to calculate regional construction air emissions and an analysis of the proposed project's short-term construction emissions for the criteria pollutants.

Methodology

The Project will be required to comply with existing SCAQMD rules for the reduction of fugitive dust emissions. SCAQMD Rule 403 establishes these procedures. Compliance with this rule is achieved through application of standard best management practices in construction and operation activities, such as application of water or chemical stabilizers to disturbed soils, managing haul road dust by application of water, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 mph, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph and establishing a permanent, stabilizing ground cover on finished sites. In addition, projects that disturb 50 acres or more of soil or move 5,000 cubic yards of materials per day are required to submit a Fugitive Dust Control Plan or a Large Operation Notification Form to SCAQMD. Based on the size of the Project area (approximately 14.81 acres) a Fugitive Dust Control Plan or Large Operation Notification will not be required.

SCAQMD's Rule 403 minimum requirements require that the application of the best available dust control measures are used for all grading operations and include the application of water or other soil stabilizers in sufficient quantity to prevent the generation of visible dust plumes. Compliance with Rule 403 would require the use of water trucks during all phases where earth moving operations would occur. Mitigation Measure 1 was included to ensure compliance with Rule 403.

The phases of the construction activities which have been analyzed below are: 1) grading, 2) building construction, 3) paving, and 4) application of architectural coatings. For details on construction modeling, please see Appendix B.

The application of architectural coatings would occur after the completion of the construction phase. Per SCAQMD Rule 1113 as amended on June 3, 2011, the architectural coatings applied after January 1, 2014 will be limited to an average of 50 grams per liter or less and the CalEEMod model default VOC emissions have been adjusted accordingly.

Project Impacts

The construction-related criteria pollutant emissions for each phase are shown below in Table 7. Table 7 shows that none of the analyzed criteria pollutants would exceed the regional emissions thresholds. Therefore, a less than significant regional air quality impact would occur from construction of the proposed project.

B. Construction-Related Local Impacts

Construction-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. The proposed project has been analyzed for the potential local air quality impacts created from: construction-related fugitive dust and diesel emissions; from toxic air contaminants; and from construction-related odor impacts.

1. Local Air Quality Impacts from Construction

The SCAQMD has published a "Fact Sheet for Applying CalEEMod to Localized Significance Thresholds" (South Coast Air Quality Management District 2011b). CalEEMod calculates construction emissions based on the number of equipment hours and the maximum daily disturbance activity possible for each piece of equipment. In order to compare CalEEMod reported emissions against the localized significance threshold lookup tables, the CEQA document should contain in its project design features or its mitigation measures the following parameters:

1) The off-road equipment list (including type of equipment, horsepower, and hours of operation) assumed for the day of construction activity with maximum emissions.
2) The maximum number of acres disturbed on the peak day.
3) Any emission control devices added onto off-road equipment.
4) Specific dust suppression techniques used on the day of construction activity with maximum emissions.

The CalEEMod output sheets included in Appendix B show the equipment used for this analysis.

As shown in Table 8, the maximum number of acres disturbed in a day would be five acres.

The local air quality emissions from construction were analyzed using the SCAQMD's Mass Rate Localized Significant Threshold Look-up Tables and the methodology described in Localized Significance Threshold Methodology, prepared by SCAQMD, revised July 2008. The Look-up Tables were developed by the SCAQMD in order to readily determine if the daily emissions of CO, NOx, PM10, and PM2.5 from the proposed project could result in a significant impact to the local air quality. The emission thresholds were calculated based on the Central San Bernardino Valley source receptor area and a disturbance of five acres per day. In order to assure that the 5 acre limitation is adhered to during grading operations, Mitigation Measure 1 is provided that limits that daily disturbed area during the site preparation and grading phases to 5 acres per day.

The nearest sensitive receptors to the project site consist of the Packing House Church and school that is adjacent to the north and west sides of the project site. According to LST Methodology, any receptor located closer than 25 meters (82 feet) shall be based on the 25 meter thresholds. The on-site emissions from the CalEEMod model for the different construction phases and the calculated emissions thresholds are shown in Table 9.

Mitigation Measure 2 is provided to ensure the grading contractors to comply with all applicable measures listed in SCAQMD Rule 403 to control fugitive dust including the application of water to all exposed surfaces a minimum of three times per day. The local construction emissions are shown below in Table 9. Table 9 shows that the construction-related local air emissions are less than significant.

2. Construction-Related Toxic Air Contaminant Impacts

The greatest potential for toxic air contaminant emissions would be related to diesel particulate emissions associated with heavy equipment operations during construction of the proposed project. According to SCAQMD methodology, health effects from carcinogenic air toxics are usually described in terms of "individual cancer risk". "Individual Cancer Risk" is the likelihood that a person exposed to concentrations of toxic air contaminants over a 70-year lifetime will contract cancer, based on the use of standard risk-assessment methodology. Given the relatively limited number of heavy-duty construction equipment and the short-term construction schedule, the proposed project would not result in a long-term (i.e., 70 years) substantial source of toxic air contaminant emissions and corresponding individual cancer risk. Therefore, no significant short-term toxic air contaminant impacts would occur during construction of the proposed project.

3. Construction-Related Odor Impacts

Potential sources that may emit odors during construction activities include the application of materials such as asphalt pavement. The objectionable odors that may be produced during the construction process are of short-term in nature and the odor emissions are expected cease upon the drying or hardening of the odor producing materials. Due to the short-term nature and limited amounts of odor producing

materials being utilized, no significant impact related to odors would occur during construction of the proposed project.

4. Construction-Related Cumulative Impacts

The Chiming Inc. Industrial project is currently being processed through the County that is located adjacent to the west side of the proposed project. Both the Chiming Inc. Industrial project and the proposed project are adjacent to the Packinghouse Church and school property and the cumulative impacts from both projects construction activities may result in an exceedance of local air criteria pollutant concentrations at the adjacent church and school. If the Chiming Inc., Industrial project is graded concurrently with the proposed project, this could result in a significant cumulative construction-related air impact to the Packinghouse Church and School property.

Mitigation Measure 3 would require the project applicant to coordinate their site preparation and grading activities timing with the Chiming Inc. Industrial project, in order to ensure that there are no days where earth moving activities occur concurrently for both projects. Through implementation of Mitigation Measure 3, the cumulative construction-related local air impacts to the Packinghouse Church and school would be reduced to less than significant.

Table 7

Construction-Related Regional Criteria Pollutant Emissions[1]

Activity	Pollutant Emissions (pounds/day)					
	VOC	NOx	CO	SO_2	PM10	PM2.5
Grading						
On-Site[2]	6.85	80.72	51.58	0.06	6.43	4.88
Off-Site[3]	0.11	0.13	1.70	0.00	0.23	0.06
Total	**6.96**	**80.85**	**53.28**	**0.06**	**6.66**	**4.94**
Building Construction						
On-Site[2]	3.87	31.25	18.93	0.03	2.23	2.10
Off-Site[3]	2.66	13.76	36.08	0.06	3.97	1.24
Total	**6.53**	**45.01**	**55.01**	**0.09**	**6.20**	**3.34**
Paving						
On-Site[2]	2.42	25.18	14.98	0.02	1.14	1.30
Off-Site[3]	0.07	0.09	1.15	0.00	0.17	0.05
Total	**2.49**	**25.26**	**16.13**	**0.02**	**1.31**	**1.35**
Architectural Coating						
On-Site[2]	52.87	2.57	1.90	0.00	0.22	0.22
Off-Site[3]	0.26	0.32	4.14	0.01	0.61	0.16
Total	**53.13**	**2.89**	**6.04**	**0.01**	**0.83**	**0.39**
Total for Ovelapping Phases[4]	**62.15**	**73.16**	**77.18**	**0.12**	**8.34**	**5.07**
SCAQMD Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds	no	no	no	no	no	no

[1] Source: CalEEMod Version 2013.2.2

[2] On-site emissions from equipment operated on-site that is not operated on public roads.

[3] Off-site emissions from equipment operated on public roads.

[4] Building construction, paving and painting phases may overlap

Table 8

Maximum Number of Acres Disturbed Per Day[1]

Activity	Equipment	Number	Acres/8hr-day	Total Acres
Site Grading	Graders	1	0.5	0.5
	Rubber Tired Dozers	1	0.5	0.5
	Excavators	2	0.5	1
	Scrapers	2	1	2
	Tractors/Loaders/Backhoes	2	0.5	1
Total per phase		-	-	**5**

[1] Source: South Coast AQMD, Fact Sheet for Applying CalEEMod to Localized Significance Thresholds

Table 9

Local Construction Emissions at the Closest Receptors[1]

Phase	On-Site Pollutant Emissions (pounds/day)			
	NOx	CO	PM10	PM2.5
Grading	80.72	51.58	6.43	4.88
Building Construction	31.25	18.93	2.23	2.10
Paving	25.18	14.98	1.14	1.30
Architectural Coating	2.57	1.90	0.22	0.22
SCAQMD Threshold for 25 meters (82 feet) or less[2]	**270**	**1,746**	**14**	**8**
Exceeds Threshold?	no	no	no	no

[1] Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for five acres in Central San Bernardino Valley.

[2] The nearest sensitive receptors consist of a church and school located adjacent to the project site, however according to LST methodology any receptor located closer than 25 meters should be based on the 25 meter threshold.

VII. Long-Term Air Quality Operational Impacts

The on-going operation of the proposed project would result in a long-term increase in air quality emissions. The following section provides an analysis of potential long-term air quality impacts due to: regional air quality and local air quality impacts with the on-going operations of the proposed project.

A. Operations-Related Regional Air Quality Impacts

The potential operations-related air emissions have been analyzed below for the criteria pollutants and cumulative impacts.

1. Operations-Related Criteria Pollutant Analysis

The operations-related criteria air quality impacts created by the proposed project have been analyzed through use of the CalEEMod model. The proposed project was analyzed in the CalEEMod model based on 313,470 square foot warehouse building, a 238 space parking lot, and 5.47 acres of landscaping. The operating emissions were based on the year 2015, which is the anticipated opening year for the proposed project. The operations daily emissions printouts from the CalEEMod model are provided in Appendix C. The CalEEMod analyzes operational emissions from area sources, energy usage, and mobile sources, which are discussed below.

Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the proposed project have been analyzed by inputting the project-generated vehicular trips from the Alabama Venture 1 Project Traffic Impact Analysis (Traffic Analysis), prepared by Kunzman Associates, Inc. June, 2014, into the CalEEMod Model. The Traffic Analysis found that the proposed project would create 419 automobile round trips, 18 2-axle truck round trips, 24 3-axle truck round trips, and 65 4+-axle truck round trips per day. The weekday, Saturday and Sunday trip rates for the warehouse land use in the CalEEMod was set to 1.68 trips per 1,000 square feet of building space in order to be consistent with the Traffic Analysis. The vehicle mix in the CalEEMod model was adjusted based on the vehicle mix provided in the Traffic Impact Analysis and the resultant vehicle mix is shown in Table 10. For vehicle types such as automobiles that would fit in multiple categories in the CalEEMod model, the same ratio that was provided in the default values was maintained for the project values.

Due to the proposed project's location and proposed warehouse land use, the average customer based trip length was increased to 40 miles, while the other trip lengths were based on the default values. The CalEEMod model applies the emission factors for each trip which is provided by the EMFAC2011 model to determine the vehicular traffic pollutant emissions.

Area Sources

Area sources include emissions from consumer products, landscape equipment and architectural coatings. The area source emissions were based on the on-going use of the proposed 313,470 square foot warehouse building in the CalEEMod model. Per SCAQMD Rule 1113 as amended on June 3, 2011, the architectural coatings that would be applied after January 1, 2014 will be limited to an average of 50 grams per liter or less and the CalEEMod model default VOC emissions have been adjusted accordingly. No other changes were made to the default area source parameters.

Energy Usage

Energy usage includes emissions from the natural gas used on-site. The energy usage emissions were based on the on-going use of the proposed 313,470 square foot warehouse building in the CalEEMod model. No changes were made to the default energy usage parameters.

Project Impacts

The worst-case summer or winter VOC, NOx, CO, SO_2, PM10, and PM2.5 emissions created from the proposed project's long-term operations have been calculated and are summarized below in Table 11. Table 11 shows that none of the analyzed criteria pollutants would exceed the regional emissions thresholds. Therefore, a less than significant regional air quality impact would occur from operation of the proposed project.

2. Cumulative Regional Air Quality Impacts

Cumulative projects include local development as well as general growth within the project area. However, as with most development, the greatest source of emissions is from mobile sources, which travel well out of the local area. Therefore, from an air quality standpoint, the cumulative analysis would extend beyond any local projects and when wind patterns are considered, would cover an even larger area. Accordingly, the cumulative analysis for the project's air quality must be generic by nature.

The project area is out of attainment for both ozone and PM10 particulate matter. Construction and operation of cumulative projects will further degrade the local air quality, as well as the air quality of the South Coast Air Basin. The greatest cumulative impact on the quality of regional air cell will be the incremental addition of pollutants mainly from increased traffic from residential, commercial, and industrial development and the use of heavy equipment and trucks associated with the construction of these projects. Air quality will be temporarily degraded during construction activities that occur separately or simultaneously. However, in accordance with the SCAQMD methodology, projects that do not exceed the SCAQMD criteria or can be mitigated to less than criteria levels are not significant and do not add to the overall cumulative impact. With respect to long-term emissions, this project would create a less than significant cumulative impact.

B. Operations-Related Local Air Quality Impacts

Project-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. The proposed project has been analyzed for the potential local CO emission impacts from the project-generated vehicular trips and from the potential local air quality impacts from on-site operations. The following analysis analyzes the vehicular CO emissions, local impacts from on-site operations, and odor impacts.

1. Local CO Emission Impacts from Project-Generated Vehicular Trips

CO is the pollutant of major concern along roadways because the most notable source of CO is motor vehicles. For this reason, CO concentrations are usually indicative of the local air quality generated by a roadway network and are used as an indicator of potential local air quality impacts. Local air quality impacts can be assessed by comparing future without and with project CO levels to the State and Federal CO standards which were presented in above in Section V.

To determine if the proposed project could cause emission levels in excess of the CO standards discussed above in Section V, a sensitivity analysis is typically conducted to determine the potential for CO "hot spots" at a number of intersections in the general project vicinity. Because of reduced speeds and vehicle queuing, "hot spots" typically occur at high traffic volume intersections with a Level of Service E or worse.

The Traffic Impact Analysis found that with the proposed road improvements, no analyzed intersection would operate at a Level of Service E or worse. Therefore no CO "hot spot" modeling was performed and no significant long-term air quality impact is anticipated to local air quality with the on-going use of the proposed project.

2. Local Air Quality Impacts from On-Site Operations

Project-related air emissions from on-site sources such as architectural coatings, landscaping equipment, on-site usage of natural gas appliances as well as the operation of vehicles on-site may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin.

The local air quality emissions from on-site operations were analyzed according to the methodology described in Localized Significance Threshold Methodology, prepared by SCAQMD, revised July 2008. The Look-up Tables were developed by the SCAQMD in order to readily determine if the daily emissions of CO, NOx, PM10, and PM2.5 from the proposed project could result in a significant impact to the local air quality. The proposed project was analyzed based on the Central San Bernardino Valley source receptor area and a five acre project site.

The nearest sensitive receptors to the project site consist of the Packing House Church and school that is adjacent to the north and west sides of the project site. According

to LST Methodology, any receptor located closer than 25 meters (82 feet) shall be based on the 25 meter thresholds. Table 12 shows the on-site emissions from the CalEEMod model that includes natural gas usage, landscape maintenance equipment, and vehicles operating on-site and the calculated emissions thresholds. The vehicle emissions were based on 1/10 of the total vehicle emissions and are based on the portion of the emissions that would be anticipated to occur on-site.

The data provided in Table 12 shows that the on-going operations of the proposed project would not exceed the local NOx, CO, PM10 and PM2.5 thresholds of significance discussed above in Section V. Therefore, the on-going operations of the proposed project would create a less than significant operations-related impact to local air quality due to on-site emissions. No mitigation would be required.

3. Operations-Related Odor Impacts

Potential sources that may emit odors during the on-going operations of the proposed project would include odor emissions from diesel truck emissions and trash storage areas. Due to the distance of the nearest receptors from the project site and through compliance with SCAQMD's Rule 402 no significant impact related to odors would occur during the on-going operations of the proposed project.

Individual responses to odors are highly variable and can result in a variety of effects. Generally, the impact of an odor results from a variety of factors such as frequency, duration, offensiveness, location, and sensory perception. The frequency is a measure of how often an individual is exposed to an odor in the ambient environment. The intensity refers to an individual's or group's perception of the odor strength or concentration. The duration of an odor refers to the elapsed time over which an odor is experienced. The offensiveness of the odor is the subjective rating of the pleasantness or unpleasantness of an odor. The location accounts for the type of area in which a potentially affected person lives, works, or visits; the type of activity in which he or she is engaged; and the sensitivity of the impacted receptor.

Sensory perception has four major components: detectability, intensity, character, and hedonic tone. The detection (or threshold) of an odor is based on a panel of responses to the odor. There are two types of thresholds: the odor detection threshold and the recognition threshold. The detection threshold is the lowest concentration of an odor that will elicit a response in a percentage of the people that live and work in the immediate vicinity of the project site and is typically presented as the mean (or 50 percent of the population). The recognition threshold is the minimum concentration that is recognized as having a characteristic odor quality, this is typically represented by recognition by 50 percent of the population. The intensity refers to the perceived strength of the odor. The odor character is what the substance smells like. The hedonic tone is a judgment of the pleasantness or unpleasantness of the odor. The hedonic tone varies in subjective experience, frequency, odor character, odor intensity, and duration.

Potential sources that may emit odors during the on-going operations of the proposed project would primarily occur from odor emissions from diesel truck emissions and

trash storage areas. Diesel truck emissions odors would be generated intermittently and would not likely be noticeable for extended periods of time beyond the project site boundaries. Trash storage area odors would be required to comply with SCAQMD's Rule 402 that controls odor emissions. Therefore, no significant impact related to odors would be anticipated during the on-going operations of the proposed project and no mitigation measures would be required.

Table 10

CalEEMod Revised Vehicle Mix Parameters

CalEEMod Vehicle Type	Vehicle Mix from Traffic Analysis	CalEEMod Default Mix[1]		CalEEMod Revised Mix[2]	
		Ratio	No. of Vehicles	Ratio	No. of Vehicles
Light Auto	Automobile	0.475	250	0.432	227
Light Truck < 3750 lbs	Automobile	0.066	35	0.060	32
Light Truck 3751-5750 lbs	Automobile	0.172	91	0.157	82
Med Truck 5751-8500 lbs	Automobile	0.156	82	0.142	75
Lite-Heavy Truck 8501-10,000 lbs	2-Axle Truck	0.056	29	0.030	16
Lite-Heavy Truck 10,001-14,000 lbs	2-Axle Truck	0.009	5	0.005	3
Med-Heavy Truck 14,001-33,000 lbs	3-Axle Truck	0.016	9	0.046	24
Heavy-Heavy Truck 33,001-60,000 lbs	4+-Axle Truck	0.039	20	0.123	65
Other Bus	--	0.001	1	0.000	0
Urban Bus	--	0.001	1	0.000	0
Motorcycle	Automobile	0.005	3	0.004	2
School Bus	--	0.001	0	0.000	0
Motor Home	--	0.003	2	0.000	0
Total		**1.000**	**526**	**1.000**	**526**

[1] Source: CalEEMod Version 2013.2.2 default values for Opening year of 2015.

[2] Revised per the vehicle mix provided in the Traffic Impact Analysis of 79.6% Autos, 3.5% 2-Axle Trucks, 4.6% 3-Axle Trucks and 12.3% 4+ Axle Trucks

Table 11

Operational Criteria Pollutants Regional Air Emissions[1]

Activity	Pollutant Emissions (pounds/day)					
	VOC	NOx	CO	SO_2	PM10	PM2.5
Area Sources[2]	15.63	0.00	0.06	0.00	0.00	0.00
Energy Usage[3]	0.02	0.18	0.15	0.00	0.01	0.01
Mobile Sources[4]	3.15	19.95	41.56	0.09	5.52	1.69
Total Emissions	**18.81**	**20.13**	**41.77**	**0.09**	**5.53**	**1.70**
SCAQMD Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Threshold?	no	no	no	no	no	no

[1] Source: CalEEMod Version 2013.2.2

[2] Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.

[3] Energy usage consists of emissions from generation of electricity and on-site natural gas usage.

[4] Mobile sources consist of emissions from vehicles and road dust.

Table 12

Local Operational Emissions at the Nearest Receptors[1]

On-Site Emission Source	On-Site Pollutant Emissions (pounds/day)			
	NOx	CO	PM10	PM2.5
Area Sources[2]	0.00	0.06	0.00	0.00
Energy Usage[3]	0.18	0.15	0.01	0.01
Vehicle Emissions[4]	2.00	4.16	0.55	0.17
Total Emissions	**2.18**	**4.37**	**0.57**	**0.18**
SCAQMD Threshold for 25 meters (82 feet) or less[5]	**270**	**1,746**	**4**	**2**
Exceeds Threshold?	no	no	no	no

[1] Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for five acres in Central San Bernardino Valley.

[2] Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.

[3] Energy usage consists of emissions from on-site natural gas usage.

[4] On-site vehicular emissions based on 1/10 of the gross vehicular emissions and road dust.

[5] The nearest sensitive receptors consist of a church and school located adjacent to the project site, however according to LST methodology any receptor located closer than 25 meters should be based on the 25 meter threshold.

VIII. Diesel Emissions Health Risk Assessment

The on-going operation of the proposed project would generate toxic air contaminant emissions from diesel truck emissions created by the on-going operations of the proposed project. According to SCAQMD methodology, health effects from carcinogenic air toxics are usually described in terms of individual cancer risk. "Individual Cancer Risk" is the likelihood that a person exposed to concentrations of toxic air contaminants over a 70-year lifetime will contract cancer, based on the use of standard risk-assessment methodology.

A health risk assessment requires the completion and interaction of four general steps:

1. Quantify project-generated TAC emissions.
2. Identify nearby ground-level receptor locations that may be affected by the emissions (including any special sensitive receptor locations such as residences, schools, hospitals, convalescent homes, and daycare centers).
3. Perform air dispersion modeling analyses to estimate ambient pollutant concentrations at each receptor location using project TAC emissions and representative meteorological data to define the transport and dispersion of those emissions in the atmosphere.
4. Characterize and compare the calculated health risks with the applicable health risk significance thresholds.

A. Emission Inventory Development

Important issues that affect the dispersion modeling include the following: 1) Model Selection, 2) Source Treatment, 3) Meteorological Data, and 4) Receptor Grid. Each of these issues is addressed below.

1. Emission Source Estimates - DPM from Motor Vehicles

DPM emissions from the various sources were calculated using information derived from the project description, and mobile source emission factors from the CARB EMFAC2011 emissions factor model[1]. Truck mix information was obtained from the project-specific traffic report (Kunzman 2014).

Four pieces of information are required to generate the mobile source emissions from the proposed project:

- Number of vehicle trips for each component of the proposed project;
- Types of vehicles that access the proposed project (passenger car vs. heavy-duty truck and gasoline vs. diesel);

[1] An emission factor is a representative value that attempts to relate the quantity of a pollutant released to the atmosphere with an activity associated with the release of that pollutant. These factors are usually expressed as the weight of pollutant divided by a unit of activity, volume, distance, or duration of the activity emitting the pollutant (e.g., grams of pollutant emitted per vehicle-mile traveled or grams of pollutant emitted per brake-horsepower).

- The allocation of the vehicle trips to each building that comprises the proposed project; and
- Estimate of the vehicle emission factors for estimating exhaust and idling emissions.

Estimate of Vehicle Trips and Vehicle Types
The Kunzman Associates, Inc. project-specific traffic study (2014) showed the project is expected to generate approximately 526 vehicle trips per day.

The vehicle mix followed the recommendations of the Fontana Truck Trip Generation Study with a mix of 79.57 percent cars, 3.46 percent 2-axle trucks, 4.64 percent 3-axle trucks and 12.33 percent 4-axle trucks.

Estimate of Emission Factors
The DPM emission factors for the various vehicle types were derived from the CARB EMFAC2011 mobile source emission model. The 70-year average factors were derived for San Bernardino County for year 2015, the buildout year the proposed project. Emissions factors were estimated to establish the emissions generated while the vehicles travel off-site, along travel links from the entrance to the loading docks, and while idling at the loading dock during loading or unloading materials. All vehicles were assumed to travel on-site at a speed of 10 miles per hour. Off-site, the speeds along the roads were anticipated to average 35 miles per hour. Delivery vehicles were assumed to idle for a maximum of 15 minutes per vehicle per day (5 minutes per location: at the facility entrance, at the loading bay, and at the facility exit, in keeping with the CARB Air Toxic Control Measure (ATCM), which regulates truck idling time (CARB 2005). Table 13 provides the emission factors used in this assessment. It should be noted that the DPM emissions on both the gram per mile and gram per idle hour bases decline beyond 2013 for all vehicle classes and in particular the heavy-heavy-duty truck class (the 4+ axle "big rig" trucks). This is due to the CARB emissions' requirements on heavy-duty trucks that call for either the replacement of older trucks with cleaner trucks or the installation of diesel particulate matter filters on the truck fleet.

Emission Source Characterization
Each of the emission source types described above also requires geometrical and emission release specifications for use in the air dispersion model. Table 14 provides a summary of the assumptions used to configure the various emission sources. The following definitions are used to characterize the emission source geometrical configurations referred to in Table 14:

Point source: A single, identifiable, local source of emissions; it is approximated in the AERMOD air dispersion model as a mathematical point in the modeling region with a location and emission characteristics such as height of release, temperature, etc., for example, a truck idle location.

Line source: A series of volume sources along a path, for example, vehicular traffic along a roadway.

Figure 3 provides the location of the project buildings, emission source locations, and the locations of the adjacent sensitive receptors (located the Packing House Church and school that is adjacent to the north and west sides of the project site.

B. Receptor Network

The assessment requires that a network of receptors be specified where the impacts can be computed at the various locations surrounding the project. Receptors were located at existing residences surrounding the proposed project (as detailed above). In addition, the identified sensitive receptors locations were supplemented by the specification of a modeling grid that extended around the proposed project to identify other potential locations of impact. The locations of the receptors are shown as red triangles on Figure 3.

C. Dispersion Modeling

The next step in the assessment process utilizes the emissions inventory along with a mathematical air dispersion model and representative meteorological data to calculate impacts at the various receptor locations. The dispersion model used in this assessment is described below.

1. Model Selection

The assessment of air quality and health risk impacts from pollutant emissions from this project applied the USEPA AERMOD Model, which is the air dispersion model accepted by the SCAQMD for performing air quality impact analyses. AERMOD predicts pollutant concentrations from point, area, volume, line, and flare sources with variable emissions in terrain from flat to complex with the inclusion of building downwash effects from buildings on pollutant dispersion. It captures the essential atmospheric physical processes and provides reasonable estimates over a wide range of meteorological conditions and modeling scenarios.

2. General Model Assumptions

The basic options used in the dispersion modeling are summarized in Table 15.

As indicated in Table 15, the analysis takes into account the effects of building downwash on the dispersion of emissions from the various sources located on the project's property. Building downwash occurs when the aerodynamic turbulence, induced by nearby buildings, causes pollutants emitted from an elevated source to be mixed rapidly toward the ground (downwash), resulting in potentially higher ground-level concentrations than if the buildings were not present. The AERMOD dispersion model contains algorithms to account for building downwash effects. The required information includes the location of the emission source; the location of adjacent buildings; and the building geometry in terms of length, width, and height. For purposes of this analysis, the emission source and building locations were taken from the project site plan. The building geometries were derived from the project plan, assuming a building height of 40 feet for the building.

3. Meteorological Data

Meteorological data from the Air District's San Bernardino monitoring site was selected for this modeling application. Five full years of sequential meteorological data was collected at the site from January 1, 2005 to December 31, 2009 by the SCAQMD. The SCAQMD processed the data for input to the model. The data was obtained at SCAQMD's http://www.aqmd.gov/smog/metdata/AERMOD.html (Figure 4 shows a Wind Rose for Redlands as the project is located in the donut-hole of San Bernardino County and is surrounded by the City of Redlands).

D. Estimation of Health Risks

Health risks from diesel particulate matter are twofold. First, diesel particulate matter is a carcinogen according to the State of California. Second, long-term chronic exposure to diesel particulate matter can cause health effects to the respiratory system. Each of these health risks is discussed below.

1. Cancer Risks

According to the in Health Risk Assessment for Proposed Land Use Projects, prepared by CAPCOA, July 2009, the cancer risk should be calculated using the following formula:

[Dose-inh (mg/(Kg-day)] * [Oral Slope Factor (kg-day)/mg]*[1x106] = Potential Cancer Risk

Where:
Oral Slope Factor = 1.1
Dose-inh = (C¬air * DBR * A * EF * ED * 10-6) / AT

Where:

Cair	[Concentration in air (µg/m3)] = (Calculated by AERMOD Model)
DBR	[Daily breathing rate (L/kg body weight – day)] = 302 for residential, 149 for off-site worker
A	[Inhalation absorption factor] = 1
EF	[Exposure frequency (days/year)] = 350
ED	[Exposure duration (years)] = 70
10^6	[Micrograms to milligrams conversion]
AT	[Average time period over which exposure is averaged in days] = 25,550

According to the OEHHA formula the residential receptors equates to Cair * 318.91 = Potential Cancer Risk. The Year 2015 model run results are shown below on Figure 5 and Appendix C. Table 16 provides a summary of the calculated diesel emission concentrations at the nearest sensitive receptors. Table 16 shows that the point of maximum impact (PMI) of off-site DPM emissions would occur east of the site along San Bernardino Avenue, with concentrations of 0.01335 µg per m^3. The project diesel emissions at the PMI would result in a cancer risk increase of 0.8 per million people, however there are no sensitive receptors located in the proximity of the PMI. Sensitive Receptor 1, which is located adjacent to the northern project boundary line would

experience the highest level of project-related diesel emissions that would result in a cancer risk increase of 1.1 per million people. All off-site diesel emissions concentrations were found to be below the 10.0 in a million cancer risk threshold that has been discussed above in Section 2.0. Therefore, no significant long-term health impacts would occur from the operation of diesel trucks on the project site.

2. Non-Cancer Risks

The relationship for non-cancer health effects is given by the equation:

HIDPM = CDPM/RELDPM

Where,
HIDPM= Hazard Index; an expression of the potential for non-cancer health effects.
CDPM = Annual average diesel particulate matter concentration in µg/m3.
RELDPM = Reference Exposure Level (REL) for diesel particulate matter; the diesel particulate matter concentration at which no adverse health effects are anticipated.

The RELDPM is 5 µg/m3. The Office of Environmental Health Hazard Assessment as protective for the respiratory system has established this concentration. The resulting Hazard Index is

HIDPM = 0.01335/5 = 0.00267

The criterion for significance is a Hazard Index increase of 1.0 or greater. Therefore, the on-going operations of the proposed project would result in a less than significant impact due to the non-cancer risk from diesel emissions created by the proposed project.

E. Cumulative Health Risks

The Chiming Inc. Industrial project is currently being processed through the County that is located adjacent to the west side of the proposed project. Both the Chiming Inc. Industrial project and the proposed project are adjacent to the Packinghouse Church and school property and the cumulative impacts from both projects operational diesel particulate emissions may result in a significant cumulative cancer risk from toxic air contaminants at the Packinghouse Church and school and other nearby sensitive receptors.

In order to determine the cumulative diesel particulate emissions impacts from both the proposed project and the Chiming Inc. Industrial project, the annual diesel particulate concentrations from the proposed project (shown in Table 17) were added to the diesel particulate concentrations for the same receptors that were calculated in Chiming Inc.-Industrial Project Air Quality, Global Climate Change, and Health Risk Assessment Impact Analysis, prepared by Kunzman Associates, Inc., June, 2013, and the results are shown in Table 17.

Table 17 shows that cumulative cancer risks from both the proposed project and the Chiming Inc. Industrial project would result in a maximum concentration of 0.0060 µg per m^3 at the Packinghouse School and would result in a cancer risk of 1.9 per million people for the students, faculty, and staff. The only nearby proposed residential uses, represented by Sensitive Receptor 5, would receive a cumulative concentration of diesel emissions of 0.0028 µg per m^3, which would result in a cancer risk of 0.9 per million people. All off-site diesel emissions concentrations were found to be below the 10.0 in a million cancer risk threshold that has been discussed above in Section 2.0. Therefore, no significant long-term health impacts would occur from the cumulative operational diesel emissions from the proposed project and the Chiming Inc. Industrial project.

Table 13

2015 DPM Emissions Factors for the Proposed Project (70-year average)[1]

Vehicle Class	Idling (g/hr)	On-site Travel (g/mi)	Off-site Travel (g/mi)
Light Heavy Duty Truck 2	0.107	0.0532	0.0209
Medium Heavy Duty Truck	0.103	0.0456	0.0324
Heavy Heavy Duty Truck	0.113	0.0791	0.0607

[1] Source: EMFAC2011

Table 14

Summary of Emissions Configurations

Emission Source Type	Geometric Configuration	Relevant Assumptions
Off-site Diesel Truck Traffic	Line Sources	· Stack release height: 12 feet
		· Vehicle speed: 35 mph
		· Length of the line source (along Almond Ave, San Bernardino Ave, Alabama St and Nevada St)
		· Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		· Emission factor: CARB EMFAC2011
On-site Diesel Truck Traffic	Line Sources	· Stack release height: 12 feet
		· Vehicle speed: 10 mph
		· Length of the line source (distance from the facility entrance to the loading docks)
		· Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		· Emission factor: CARB EMFAC2011
On-site Diesel Truck Idling	Point Sources located at the loading docks for each building	· Stack release height: 12 feet
		· Stack release characteristics
		> Stack diameter: 0.1 meter (0.3 feet)
		> Stack velocity: 51.9 mps (170 feet/sec)
		> Stack temperature: 366 °k (200° F)
		· Idle time: 15 minutes per truck per day
		· Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		· Emission factor: CARB EMFAC2011

Table 15

General Modeling Assumptions - AERMOD Model

Feature	Option Selected
Terrain processing	AERMAP
Emission source configuration	See Table 14
Regulatory dispersion options	Default
Land use	Urban
Coordinate system	UTM
Building downwash	Included in calculations
Receptor height	0 meters above ground
Meteorological data	SCAQMD San Bernardino Meteorological Data

Table 16

Diesel Particulate Emission Levels and Cancer Risks at Nearby Sensitive Receptors[1]

Sensitive Receptor No.	Land Use	Annual Concentration	Cancer Risk Per Million People[2]	Significant Impact
1	School	0.0034	1.1	no
2	Off-Site Worker	0.0005	0.0	no
3	Off-Site Worker	0.0047	0.3	no
4	Residential	0.0007	0.2	no
5	Off-Site Worker	0.0024	0.2	no
6	Park	0.0012	0.4	no
7	Church	0.0016	0.5	no
8	Off-Site Worker	0.0013	0.1	no
PMI[3]	Roadway	0.0134	0.8	no

[1] Source: Calculated from ISC-AERMOD View

[2] PMI, off-site worker, = 62.9 X Cair;, school cancer risk and an off-site park/church cancer risk based on a residential receptor cancer risk = 318.91 x Cair .

[3] PMI = Point of Maximum Impact, based on commercial risk factors.

Table 17

Cumulative Diesel Particulate Emission Levels and Cancer Risks at Nearby Receptors[1]

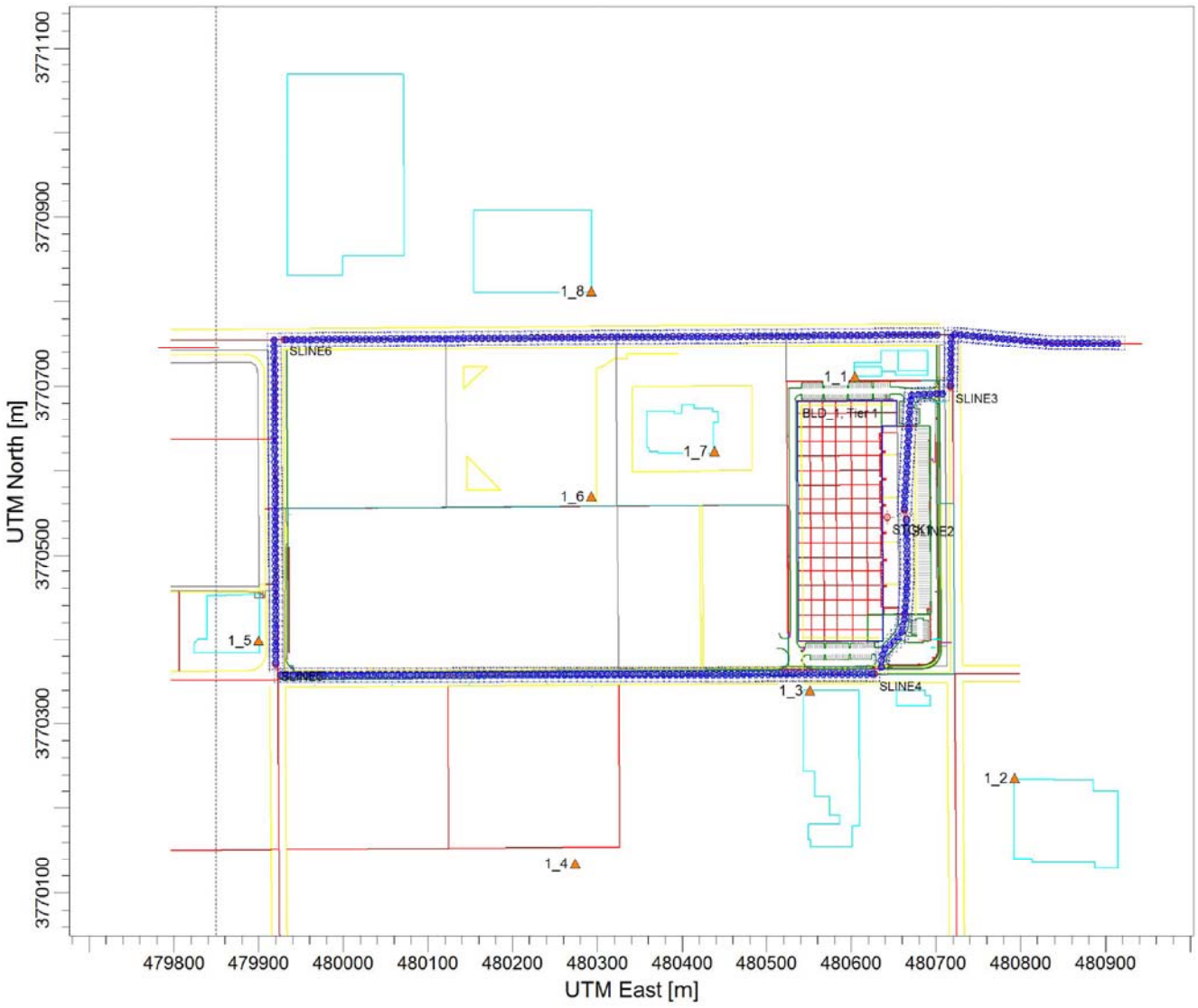
Sensitive Receptor No.	Land Use	Annual Concentration ($\mu g/m^3$)	Cancer Risk Per Million People[2]
1	School	0.0060	1.9
2	Off-Site Worker	0.0046	0.3
3	Off-Site Worker	0.0065	0.4
4	Residential	0.0028	0.9
5	Off-Site Worker	0.0039	0.2
6	Park	0.0065	2.1
7	Church	0.0027	0.9
8	Off-Site Worker	0.0033	0.2
PMI[3]	Roadway	0.0187	1.2
		Threshold of Significance	**10**

[1] Source: Calculated from ISC-AERMOD View Version 8.2.0 and Chiming Inc.-Industrial Project Air Quality, Global Climate Change, and Health Risk Assessment Impact Analysis, June, 2014.

[2] PMI, off-site worker, = 62.9 X Cair;, school cancer risk and an off-site park/church cancer risk based on a residential receptor cancer risk = 318.91 x Cair .

[3] PMI = Point of Maximum Impact

Figure 3
AERMOD Model Source and Receptor Placement



Legend

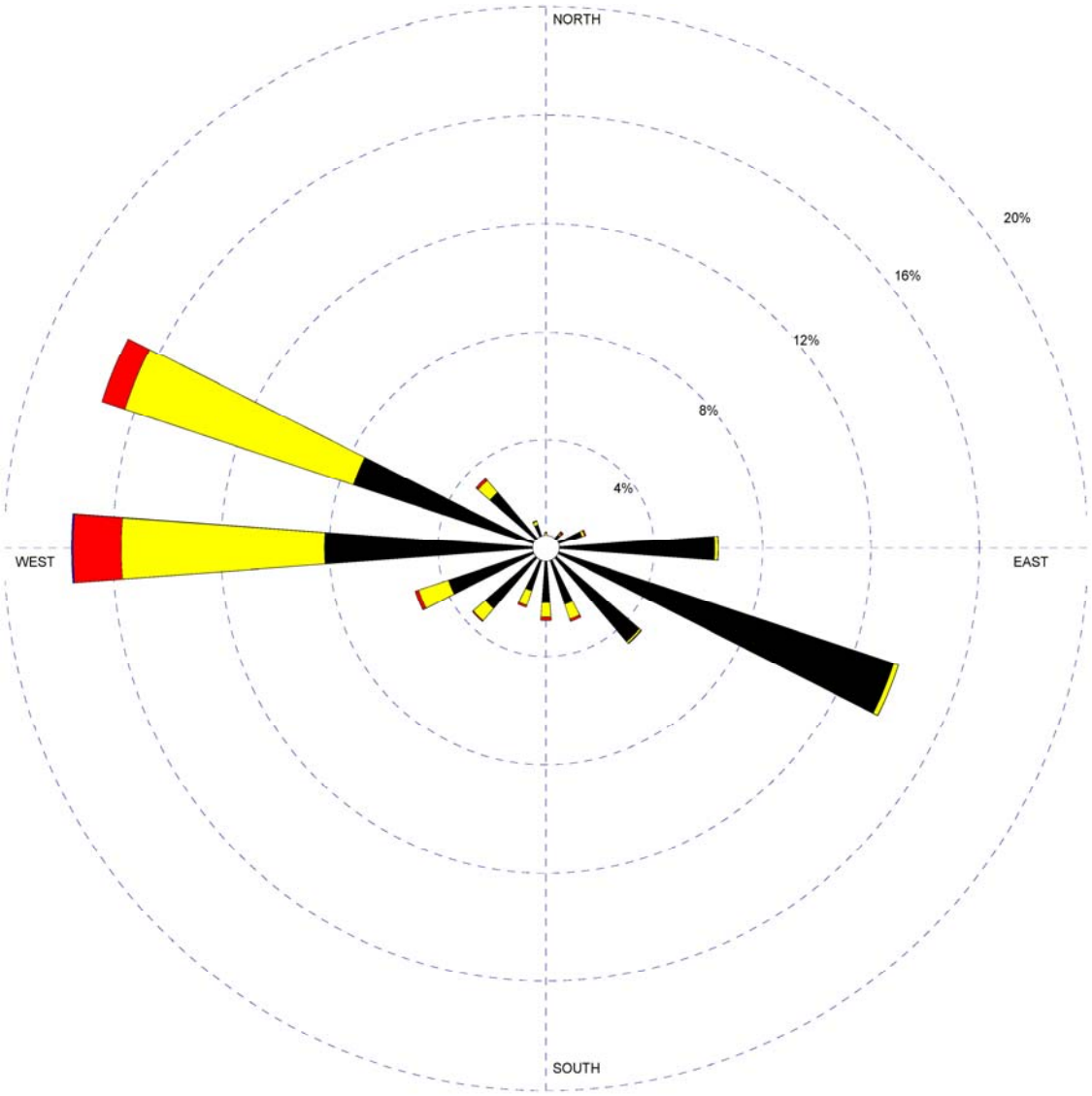
= Line of Truck Travel
= Truck Idling Point
= Receptor Location

N

NTS

5416e/3

Figure 4
Wind Rose: Redlands



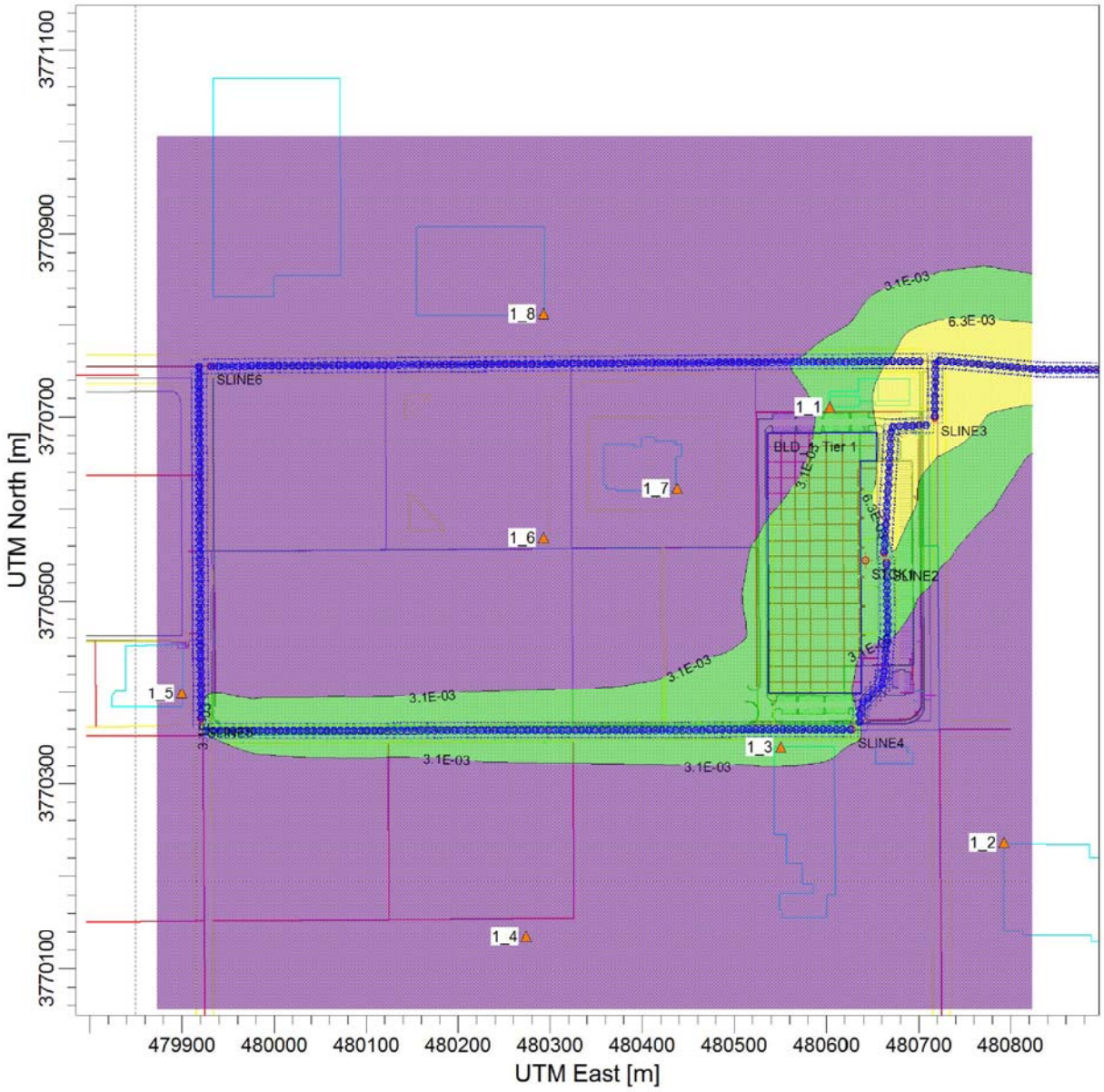
NTS

5416e/4

KUNZMAN ASSOCIATES, INC.

OVER 35 YEARS OF EXCELLENT SERVICE

Figure 5
Modeled Study Area DPM Emissions



Cancer Risk

- = 5 in One Million
- = 2 in One Million
- = 1 in One Million
- = 0.5 in One Million

N

NTS

5416e/5

IX. Global Climate Change Analysis

The proposed project is anticipated to generate GHG emissions from area sources, energy usage, mobile sources, waste, water, and construction equipment. The following provides the methodology used to calculate the project-related GHG emissions, the project impacts and a consistency analysis of the proposed project with any applicable GHG reduction plans, policies or regulations.

A. Methodology

The CalEEMod Version 2013.2.2 was used to calculate the GHG emissions from the proposed project. Each source of GHG emissions is described in greater detail below.

1. Area Sources

Area sources include emissions from consumer products, landscape equipment and architectural coatings. No changes were made to the default area source emissions.

2. Energy Usage

Energy usage includes emissions from the generation of electricity and natural gas used on-site. The energy usage was based on the CalEEMod default emissions for 313,470 square feet of warehouse uses. No changes were made to the default energy usage parameters.

3. Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the proposed project have been based on the Traffic Analysis of 419 automobile round trips, 18 2-axle truck round trips, 24 3-axle truck round trips, and 65 4+-axle truck round trips per day. The weekday, Saturday and Sunday trip rates for the warehouse land use in the CalEEMod was set to 1.68 trips per 1,000 square feet of building space in order to be consistent with the Traffic Analysis. The vehicle mix in the CalEEMod model was adjusted based on the vehicle mix provided in the Traffic Impact Analysis and the resultant vehicle mix is shown in Table 10. For vehicle types such as automobiles that would fit in multiple categories in the CalEEMod model, the same ratio that was provided in the default values were maintained for the with project values.

Due to the proposed project's location and proposed warehouse land use, the average customer based trip length was increased to 40 miles, while the other trip lengths were based on the default values. The CalEEMod model applies the emission factors for each trip which is provided by the EMFAC2011 model to determine the vehicular traffic pollutant emissions.

4. Waste

Waste includes the GHG emissions generated from the processing of waste from the proposed project as well as the GHG emissions from the waste once it is interred into a landfill. The CalEEMod default value for waste generated from 313,470 square feet of warehouse uses was utilized in the analysis.

5. Water

Water includes the water used for the interior of the building as well as for landscaping and is based on the GHG emissions associated with the energy used to transport and filter the water. The CalEEMod default values were used in the analysis.

6. Construction

The construction-related GHG emissions were also included in the analysis and were based on a 30 year amortization rate as recommended in the SCAQMD GHG Working Group meeting on November 19, 2009. The construction-related GHG emissions were calculated by CalEEMod and detailed above in Section VI.

B. Project Greenhouse Gas Emissions

The GHG emissions have been calculated based on the parameters described above. A summary of the results are shown below in Table 18 and the CalEEMod Model run for the proposed project is provided in Appendix C. Table 18 shows that the proposed project would generate 2,245.50 $MTCO_2e$ per year. According to the thresholds of significance established above in Section 5.0, a cumulative global climate change impact would occur if the GHG emissions created from the on-going operations would exceed 3,000 metric tons per year of CO_2e. Therefore, operation of the proposed project would not create a significant cumulative impact to global climate change.

C. Greenhouse Gas Plan Consistency

The proposed project would have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases.

On December 6, 2011, the County adopted a Greenhouse Gas Emissions Reduction Plan (GHG Plan). In addition, the Greenhouse Gas Emissions Development Review Processes (GHG Review Processes), prepared for the County of San Bernardino, August 2011, provides direction for conformity of new development projects to the GHG Plan. The GHG Review Processes determined that projects that do not exceed 3,000 $MTCO_2e$ per year will be consistent with the GHG Plan and determined to have a less than significant individual and cumulative impact for GHG emissions. For projects that exceed 3,000 $MTCO_2e$ per year of GHG emissions, which includes the proposed project, the GHG Review Processes has determined that implementation of 100 or greater points associated with mitigation measures listed on its Screening Tables, will adequately reduce the proposed project's GHG emissions, when considered with other future development and existing development to

allow the County to meet its 2020 target GHG reductions and support reductions in GHG emissions beyond 2020. Since the proposed project's emissions do not exceed 3,000 $MTCO_2e$ per year, the project is considered to be consistent with the GHG Plan. Therefore, the proposed project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases.

Table 18

Project-Related Greenhouse Gas Emissions[1]

Category	Greenhouse Gas Emissions (Metric Tons/Year)					
	Bio-CO2	NonBio-CO_2	CO_2	CH_4	N_2O	CO_2e
Area Sources[2]	0.00	0.01	0.01	0.00	0.00	0.01
Energy Usage[3]	0.00	330.68	330.68	0.01	0.00	332.05
Mobile Sources[4]	0.00	1,388.45	1,388.45	0.04	0.00	1,389.37
Solid Waste[5]	59.81	0.00	59.81	3.53	0.00	134.05
Water[6]	23.00	270.12	293.11	2.37	0.06	361.06
Construction[7]	0.00	37.86	37.86	0.00	0.00	37.96
Total Emissions	82.81	2,027.11	2,109.92	5.97	0.06	**2,254.50**
Threshold						**3,000**
Exceeds Screening Threshold?						**No**

[1] Source: CalEEMod Version 2013.2.2

[2] Area sources consist of GHG emissions from consumer products, architectural coatings, and landscape equipment.

[3] Energy usage consist of GHG emissions from electricity and natural gas usage.

[4] Mobile sources consist of GHG emissions from vehicles.

[5] Solid waste includes the CO_2 and CH_4 emissions creat4ed from the solid waste placed in landfills.

[6] Water includes GHG emissions from electricity used for transport of water and processing of wastewater.

[7] Construction GHG emissions based on a 30 year amortization rate.

X. Air Quality Compliance

The California Environmental Quality Act (CEQA) requires a discussion of any inconsistencies between a proposed project and applicable General Plans and Regional Plans (CEQA Guidelines Section 15125). The regional plan that applies to the proposed project includes the SCAQMD Air Quality Management Plan (AQMP). Therefore, this section discusses any potential inconsistencies of the proposed project with the AQMP.

The purpose of this discussion is to set forth the issues regarding consistency with the assumptions and objectives of the AQMP and discuss whether the proposed project would interfere with the region's ability to comply with Federal and State air quality standards. If the decision-makers determine that the proposed project is inconsistent, the lead agency may consider project modifications or inclusion of mitigation to eliminate the inconsistency.

The SCAQMD CEQA Handbook states that "New or amended General Plan Elements (including land use zoning and density amendments), Specific Plans, and significant projects must be analyzed for consistency with the AQMP." Strict consistency with all aspects of the plan is usually not required A proposed project should be considered to be consistent with the AQMP if it furthers one or more policies and does not obstruct other policies. The SCAQMD CEQA Handbook identifies two key indicators of consistency:

(1) Whether the project will result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the AQMP.

(2) Whether the project will exceed the assumptions in the AQMP in 2012 or increments based on the year of project buildout and phase.

Both of these criteria are evaluated in the following sections.

A. Criterion 1 - Increase in the Frequency or Severity of Violations

Based on the air quality modeling analysis contained in this Air Analysis, short-term construction impacts will not result in significant impacts based on the SCAQMD regional and local thresholds of significance. This Air Analysis also found that long-term operations impacts will not result in significant impacts based on the SCAQMD local, regional, and toxic air contaminant thresholds of significance.

Therefore, the proposed project is not projected to contribute to the exceedance of any air pollutant concentration standards and is found to be consistent with the AQMP for the first criterion.

B. Criterion 2 - Exceed Assumptions in the AQMP?

Consistency with the AQMP assumptions is determined by performing an analysis of the proposed project with the assumptions in the AQMP. The emphasis of this criterion is to

insure that the analyses conducted for the proposed project are based on the same forecasts as the AQMP. The 2012-2035 Regional Transportation/Sustainable Communities Strategy, prepared by SCAG, 2012, consists of three sections: Core Chapters, Ancillary Chapters, and Bridge Chapters. The Growth Management, Regional Mobility, Air Quality, Water Quality, and Hazardous Waste Management chapters constitute the Core Chapters of the document. These chapters currently respond directly to federal and state requirements placed on SCAG. Local governments are required to use these as the basis of their plans for purposes of consistency with applicable regional plans under CEQA. For this project, the County Land Use Plan defines the assumptions that are represented in the AQMP.

The project site is currently designated as "IR" (Regional Industrial) in the General Plan. The proposed warehousing development on the project site would be consistent with the current General Plan land use designation. Therefore, the proposed project would not result in an inconsistency with the current land use designation in the County's General Plan. Therefore, the proposed project is not anticipated to exceed the AQMP assumptions for the project site and is found to be consistent with the AQMP for the second criterion.

Based on the above, the proposed project will not result in an inconsistency with the SCAQMD AQMP. Therefore, a less than significant impact will occur.

XI. Mitigation Measures

A. Construction Measures

Mitigation Measure 1. The project applicant shall require that the site preparation and grading contractors limit the daily disturbed area to 5 acres or less.

Mitigation Measure 2. The project applicant shall require that during site preparation, and grading operations all contractors shall comply with all applicable measures listed in SCAQMD Rule 403 to control fugitive dust including the application of water to all exposed surfaces a minimum of three times per day.

Mitigation Measure 3. The project applicant shall coordinate the site preparation and grading activities timing with the Chiming Inc. Industrial project, located adjacent to the west side of the project site, in order to ensure that there are no days where earth moving activities occur concurrently for both projects.

B. Operational Measures

None required.

XII. References

California Air Pollution Control Officers Association

2009 Health Risk Assessments for Proposed Land Use Projects

California Air Resources Board

2008 Resolution 08-43

2008 Airborne Toxic Control Measure for in-use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets, Section 2477 of Division 3, Chapter 9, Title 13, California Code of Regulations

2008 Recommended Approaches for Setting Interim Significance Thresholds for Greenhouse Gases under the California Environmental Quality Act

2008 ARB Recommended Interim Risk Management Policy for Inhalation-Based Residential Cancer Risk – Frequently Asked Questions

2011 Supplement to the AB 32 Scoping Plan Functional Equivalent Document

2014 Historical Air Quality, Top 4 Summary

County of San Bernardino

2007 County of San Bernardino 2007 General Plan

2011 County of San Bernardino General Plan Amendment and Greenhouse Reduction Plan Draft Supplemental Program Environmental Impact Report

2011 Greenhouse Gas Emissions Development Review Processes

Governor's Office of Planning and Research

2008 CEQA and Climate: Addressing Climate Change Through California Environmental Quality Act (CEQA) Review

2009 CEQA Guideline Sections to be Added or Amended

Kunzman Associates, Inc.

2014 Alabama Venture 1 Project Traffic Impact Analysis

2014 Chiming Inc.-Industrial Project Air Quality, Global Climate Change, and Health Risk Assessment Impact Analysis

Office of Environmental Health Hazard Assessment

2003 Air Toxics Hot Spots Program Risk Assessment Guidelines

Natelson Company, Inc.
2001 Employment Density Study Summary Report

South Coast Air Quality Management District
1993 CEQA Air Quality Handbook

2003 Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis

2007 2007 Air Quality Management Plan

2008 Final Localized Significance Threshold Methodology, Revised

2008 Draft Report Multiple Air Toxics Exposure Study in the South Coast Air Basin, MATES III

2011 Appendix A Calculation Details for CalEEMod

2012 2012 Air Quality Management Plan

Southern California Association of Governments
2012 2012-2035 Regional Transportation Plan/Sustainable Communities Strategy

U.S. Geological Survey
2011 Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California

Appendices

Appendix A – Glossary of Terms

Appendix B – CalEEMod Model Daily Emissions Printouts

Appendix C – AERMOD Model Printouts

Appendix D – CalEEMod Model Annual Emissions Printouts

APPENDIX A

Glossary of Terms

AQMP	Air Quality Management Plan
BACT	Best Available Control Technologies
CAAQS	California Ambient Air Quality Standards
CalEPA	California Environmental Protection Agency
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCAR	California Climate Action Registry
CEQA	California Environmental Quality Act
CFCs	Chlorofluorocarbons
CH_4	Methane
CNG	Compressed natural gas
CO	Carbon monoxide
CO_2	Carbon dioxide
CO_2e	Carbon dioxide equivalent
DPM	Diesel particulate matter
EPA	U.S. Environmental Protection Agency
GHG	Greenhouse gas
GWP	Global warming potential
HIDPM	Hazard Index Diesel Particulate Matter
HFCs	Hydrofluorocarbons
IPCC	International Panel on Climate Change
LCFS	Low Carbon Fuel Standard
LST	Localized Significant Thresholds
$MTCO_2e$	Metric tons of carbon dioxide equivalent
$MMTCO_2e$	Million metric tons of carbon dioxide equivalent
MPO	Metropolitan Planning Organization
NAAQS	National Ambient Air Quality Standards
NOx	Nitrogen Oxides
NO_2	Nitrogen dioxide
N_2O	Nitrous oxide
O_3	Ozone
OPR	Governor's Office of Planning and Research
PFCs	Perfluorocarbons
PM	Particle matter
PM10	Particles that are less than 10 micrometers in diameter
PM2.5	Particles that are less than 2.5 micrometers in diameter
PMI	Point of maximum impact
PPM	Parts per million
PPB	Parts per billion
RTIP	Regional Transportation Improvement Plan
RTP	Regional Transportation Plan
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District

SF	Square Feet
SF_6	Sulfur hexafluoride
SIP	State Implementation Plan
SOx	Sulfur Oxides
T6	Heavy Duty Trucks from EMFAC 2007 classifications
T7	Heavy-Heavy Duty Trucks from EMFAC 2007 classifications
TAC	Toxic air contaminants
VOC	Volatile organic compounds

APPENDIX B

CalEEMod Model Daily Emissions Printouts

Alabama Venture 1, 5416 warehouse

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	313.47	1000sqft	7.20	313,470.00	0
Parking Lot	238.00	Space	2.14	95,200.00	0
Other Non-Asphalt Surfaces	5.47	Acre	5.47	238,273.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2015
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 313.470 1000 sq ft of warehouse on 14.81 238 space parking lot and 4.73 acres of other non-asphalt surfaces.

Construction Phase - Project schedule provided by applicant

Trips and VMT - 6 vendor trucks per day added to the Site Preparation and Grading phases to account for water truck emissions

Architectural Coating - Per SCAQMD Rule 1113, architectural coatings that are applied after January 1, 2014 will be limited to 50 grams of VOC per liter

Vehicle Trips - Trip Rate set to 1.68 per 1000 sq ft to match TIA. C-W Trip length extended to 40 miles and percentage adjusted to 20

Vechicle Emission Factors - Vehicle mix revised to match TIA

Vechicle Emission Factors - Vehicle mix revised to match TIA

Vechicle Emission Factors - Vehicle mix revised to match TIA

Water And Wastewater - Indoor water use 10,518,697 gallons per year. Outdoor water use 3,576,357 gallons per year

Construction Off-road Equipment Mitigation - Water exposed areas a minimum of 3 times per day

Grading - Site is 14.81 acres

Area Coating - SCAQMD Rule 1113 50g/L VOC

Sequestration - ~1 tree per 3 parking spaces = 238 spaces / 3 spaces = 80 trees

Mobile Land Use Mitigation - 1.9 miles to downtown Redlands. Warehouse will create an average of 15 jobs per acre. Sidewalks adjacent to site and connecting off-site.

Mobile Commute Mitigation - 80% of project traffic is light vehicle, all those vehicles are eligible for ride share and van pool

Area Mitigation - SCAQMD Rule 1113

Energy Mitigation - 2013 Title 24 is 30% more efficient than 2008 Title 24

Water Mitigation - Green Building standards

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblConstructionPhase	NumDays	20.00	49.00
tblConstructionPhase	NumDays	300.00	262.00
tblConstructionPhase	NumDays	20.00	52.00

tblConstructionPhase	PhaseEndDate	10/23/2015	10/25/2015
tblGrading	AcresOfGrading	75.00	14.81
tblProjectCharacteristics	OperationalYear	2014	2015
tblSequestration	NumberOfNewTrees	0.00	80.00
tblVehicleEF	HHD	0.04	0.12
tblVehicleEF	HHD	0.04	0.12
tblVehicleEF	HHD	0.04	0.12
tblVehicleEF	LDA	0.47	0.43
tblVehicleEF	LDA	0.47	0.43
tblVehicleEF	LDA	0.47	0.43
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT2	0.17	0.16
tblVehicleEF	LDT2	0.17	0.16
tblVehicleEF	LDT2	0.17	0.16
tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD2	9.1200e-003	5.0000e-003
tblVehicleEF	LHD2	9.1200e-003	5.0000e-003
tblVehicleEF	LHD2	9.1200e-003	5.0000e-003
tblVehicleEF	MCY	4.8710e-003	4.0000e-003
tblVehicleEF	MCY	4.8710e-003	4.0000e-003
tblVehicleEF	MCY	4.8710e-003	4.0000e-003
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.16	0.14

tblVehicleEF	MH	2.9140e-003	0.00
tblVehicleEF	MH	2.9140e-003	0.00
tblVehicleEF	MH	2.9140e-003	0.00
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	OBUS	1.1190e-003	0.00
tblVehicleEF	OBUS	1.1190e-003	0.00
tblVehicleEF	OBUS	1.1190e-003	0.00
tblVehicleEF	SBUS	7.2300e-004	0.00
tblVehicleEF	SBUS	7.2300e-004	0.00
tblVehicleEF	SBUS	7.2300e-004	0.00
tblVehicleEF	UBUS	1.3380e-003	0.00
tblVehicleEF	UBUS	1.3380e-003	0.00
tblVehicleEF	UBUS	1.3380e-003	0.00
tblVehicleTrips	CNW_TTP	41.00	80.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	20.00
tblVehicleTrips	ST_TR	2.59	1.68
tblVehicleTrips	SU_TR	2.59	1.68
tblVehicleTrips	WD_TR	2.59	1.68

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					
2014	6.9557	80.8521	55.0109	0.0879	6.7692	3.8811	10.6502	3.4260	3.5706	6.9966	0.0000	8,453.7669	8,453.7669	1.9509	0.0000	8,494.7354
2015	53.1270	42.1064	51.0483	0.0882	3.7062	2.3246	6.0308	0.9964	2.1814	3.1779	0.0000	8,322.1088	8,322.1088	0.8660	0.0000	8,340.2937
Total	**60.0827**	**122.9585**	**106.0592**	**0.1760**	**10.4754**	**6.2057**	**16.6811**	**4.4225**	**5.7520**	**10.1745**	**0.0000**	**16,775.8758**	**16,775.8758**	**2.8168**	**0.0000**	**16,835.0291**

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					
2014	6.9557	80.8521	55.0109	0.0879	3.7063	3.8811	6.6574	1.3723	3.5706	4.9429	0.0000	8,453.7669	8,453.7669	1.9509	0.0000	8,494.7354
2015	53.1270	42.1064	51.0483	0.0882	3.7062	2.3246	6.0308	0.9964	2.1814	3.1779	0.0000	8,322.1088	8,322.1088	0.8660	0.0000	8,340.2937
Total	**60.0827**	**122.9585**	**106.0592**	**0.1760**	**7.4125**	**6.2057**	**12.6882**	**2.3688**	**5.7520**	**8.1208**	**0.0000**	**16,775.8757**	**16,775.8757**	**2.8168**	**0.0000**	**16,835.0291**

	ROG	NOx	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**	**29.24**	**0.00**	**23.94**	**46.44**	**0.00**	**20.19**	**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	15.6324	5.7000e-004	0.0588	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1219	0.1219	3.5000e-004		0.1293
Energy	0.0198	0.1802	0.1514	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.2211	216.2211	4.1400e-003	3.9600e-003	217.5369
Mobile	3.1532	19.1814	41.5639	0.0941	5.1993	0.3192	5.5185	1.3944	0.2935	1.6879		8,778.4015	8,778.4015	0.2641		8,783.9468
Total	**18.8054**	**19.3621**	**41.7741**	**0.0952**	**5.1993**	**0.3331**	**5.5324**	**1.3944**	**0.3074**	**1.7018**		**8,994.7444**	**8,994.7444**	**0.2686**	**3.9600e-003**	**9,001.6130**

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	13.5196	5.7000e-004	0.0588	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1219	0.1219	3.5000e-004		0.1293
Energy	0.0140	0.1269	0.1066	7.6000e-004		9.6400e-003	9.6400e-003		9.6400e-003	9.6400e-003		152.2641	152.2641	2.9200e-003	2.7900e-003	153.1907
Mobile	2.7372	14.0314	32.5601	0.0664	3.6299	0.2252	3.8550	0.9735	0.2070	1.1805		6,191.5489	6,191.5489	0.1901		6,195.5416
Total	**16.2708**	**14.1589**	**32.7255**	**0.0672**	**3.6299**	**0.2350**	**3.8649**	**0.9735**	**0.2169**	**1.1903**		**6,343.9348**	**6,343.9348**	**0.1934**	**2.7900e-003**	**6,348.8616**

	ROG	NOx	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	**13.48**	**26.87**	**21.66**	**29.44**	**30.19**	**29.45**	**30.14**	**30.19**	**29.46**	**30.05**	**0.00**	**29.47**	**29.47**	**27.98**	**29.55**	**29.47**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	7/1/2014	8/11/2014	5	30	
2	Building Construction	Building Construction	8/12/2014	8/12/2015	5	262	
3	Paving	Paving	8/13/2015	10/25/2015	5	52	
4	Architectural Coating	Architectural Coating	10/26/2015	12/31/2015	5	49	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 14.81

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 831,899; Non-Residential Outdoor: 277,300 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	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
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	272.00	106.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	54.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2014

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					6.5456	0.0000	6.5456	3.3668	0.0000	3.3668			0.0000			0.0000
Off-Road	6.8480	80.7211	51.5831	0.0618		3.8792	3.8792		3.5689	3.5689		6,554.8337	6,554.8337	1.9370		6,595.5113
Total	**6.8480**	**80.7211**	**51.5831**	**0.0618**	**6.5456**	**3.8792**	**10.4248**	**3.3668**	**3.5689**	**6.9356**		**6,554.8337**	**6,554.8337**	**1.9370**		**6,595.5113**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1077	0.1310	1.7040	2.8000e-003	0.2236	1.8600e-003	0.2254	0.0593	1.6900e-003	0.0610		249.5236	249.5236	0.0139		249.8146
Total	**0.1077**	**0.1310**	**1.7040**	**2.8000e-003**	**0.2236**	**1.8600e-003**	**0.2254**	**0.0593**	**1.6900e-003**	**0.0610**		**249.5236**	**249.5236**	**0.0139**		**249.8146**

3.2 Grading - 2014

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					2.5528	0.0000	2.5528	1.3130	0.0000	1.3130			0.0000			0.0000
Off-Road	6.8480	80.7211	51.5831	0.0618		3.8792	3.8792		3.5689	3.5689	0.0000	6,554.8337	6,554.8337	1.9370		6,595.5113
Total	**6.8480**	**80.7211**	**51.5831**	**0.0618**	**2.5528**	**3.8792**	**6.4320**	**1.3130**	**3.5689**	**4.8819**	**0.0000**	**6,554.8337**	**6,554.8337**	**1.9370**		**6,595.5113**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1077	0.1310	1.7040	2.8000e-003	0.2236	1.8600e-003	0.2254	0.0593	1.6900e-003	0.0610		249.5236	249.5236	0.0139		249.8146
Total	**0.1077**	**0.1310**	**1.7040**	**2.8000e-003**	**0.2236**	**1.8600e-003**	**0.2254**	**0.0593**	**1.6900e-003**	**0.0610**		**249.5236**	**249.5236**	**0.0139**		**249.8146**

3.3 Building Construction - 2014

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	3.8680	31.2537	18.9298	0.0268		2.2280	2.2280		2.0973	2.0973		2,709.1969	2,709.1969	0.6889		2,723.6630
Total	**3.8680**	**31.2537**	**18.9298**	**0.0268**		**2.2280**	**2.2280**		**2.0973**	**2.0973**		**2,709.1969**	**2,709.1969**	**0.6889**		**2,723.6630**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1990	11.9761	12.9074	0.0230	0.6660	0.2403	0.9063	0.1901	0.2209	0.4111		2,351.0490	2,351.0490	0.0204		2,351.4782
Worker	1.4648	1.7816	23.1737	0.0381	3.0403	0.0253	3.0656	0.8063	0.0230	0.8293		3,393.5210	3,393.5210	0.1884		3,397.4780
Total	**2.6638**	**13.7577**	**36.0811**	**0.0611**	**3.7063**	**0.2656**	**3.9718**	**0.9965**	**0.2440**	**1.2404**		**5,744.5700**	**5,744.5700**	**0.2089**		**5,748.9561**

3.3 Building Construction - 2014

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	3.8680	31.2537	18.9298	0.0268		2.2280	2.2280		2.0973	2.0973	0.0000	2,709.1969	2,709.1969	0.6889		2,723.6630
Total	**3.8680**	**31.2537**	**18.9298**	**0.0268**		**2.2280**	**2.2280**		**2.0973**	**2.0973**	**0.0000**	**2,709.1969**	**2,709.1969**	**0.6889**		**2,723.6630**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1990	11.9761	12.9074	0.0230	0.6660	0.2403	0.9063	0.1901	0.2209	0.4111		2,351.0490	2,351.0490	0.0204		2,351.4782
Worker	1.4648	1.7816	23.1737	0.0381	3.0403	0.0253	3.0656	0.8063	0.0230	0.8293		3,393.5210	3,393.5210	0.1884		3,397.4780
Total	**2.6638**	**13.7577**	**36.0811**	**0.0611**	**3.7063**	**0.2656**	**3.9718**	**0.9965**	**0.2440**	**1.2404**		**5,744.5700**	**5,744.5700**	**0.2089**		**5,748.9561**

3.3 Building Construction - 2015

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	**3.6591**	**30.0299**	**18.7446**	**0.0268**		**2.1167**	**2.1167**		**1.9904**	**1.9904**		**2,689.5771**	**2,689.5771**	**0.6748**		**2,703.7483**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0240	10.4887	11.4666	0.0231	0.6659	0.1841	0.8500	0.1901	0.1693	0.3594		2,337.9232	2,337.9232	0.0184		2,338.3104
Worker	1.3088	1.5878	20.8371	0.0382	3.0403	0.0238	3.0641	0.8063	0.0218	0.8281		3,294.6084	3,294.6084	0.1727		3,298.2350
Total	**2.3328**	**12.0765**	**32.3038**	**0.0613**	**3.7062**	**0.2079**	**3.9141**	**0.9964**	**0.1910**	**1.1875**		**5,632.5317**	**5,632.5317**	**0.1911**		**5,636.5454**

3.3 Building Construction - 2015

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904	0.0000	2,689.5771	2,689.5771	0.6748		2,703.7483
Total	**3.6591**	**30.0299**	**18.7446**	**0.0268**		**2.1167**	**2.1167**		**1.9904**	**1.9904**	**0.0000**	**2,689.5771**	**2,689.5771**	**0.6748**		**2,703.7483**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0240	10.4887	11.4666	0.0231	0.6659	0.1841	0.8500	0.1901	0.1693	0.3594		2,337.9232	2,337.9232	0.0184		2,338.3104
Worker	1.3088	1.5878	20.8371	0.0382	3.0403	0.0238	3.0641	0.8063	0.0218	0.8281		3,294.6084	3,294.6084	0.1727		3,298.2350
Total	**2.3328**	**12.0765**	**32.3038**	**0.0613**	**3.7062**	**0.2079**	**3.9141**	**0.9964**	**0.1910**	**1.1875**		**5,632.5317**	**5,632.5317**	**0.1911**		**5,636.5454**

3.4 Paving - 2015

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	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016		2,339.8984	2,339.8984	0.6986		2,354.5681
Paving	0.1078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.4250**	**25.1758**	**14.9781**	**0.0223**		**1.4148**	**1.4148**		**1.3016**	**1.3016**		**2,339.8984**	**2,339.8984**	**0.6986**		**2,354.5681**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0722	0.0876	1.1491	2.1100e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2000e-003	0.0457		181.6880	181.6880	9.5200e-003		181.8880
Total	**0.0722**	**0.0876**	**1.1491**	**2.1100e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2000e-003**	**0.0457**		**181.6880**	**181.6880**	**9.5200e-003**		**181.8880**

3.4 Paving - 2015

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	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016	0.0000	2,339.8984	2,339.8984	0.6986		2,354.5681
Paving	0.1078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.4250**	**25.1758**	**14.9781**	**0.0223**		**1.4148**	**1.4148**		**1.3016**	**1.3016**	**0.0000**	**2,339.8984**	**2,339.8984**	**0.6986**		**2,354.5681**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0722	0.0876	1.1491	2.1100e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2000e-003	0.0457		181.6880	181.6880	9.5200e-003		181.8880
Total	**0.0722**	**0.0876**	**1.1491**	**2.1100e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2000e-003**	**0.0457**		**181.6880**	**181.6880**	**9.5200e-003**		**181.8880**

3.5 Architectural Coating - 2015

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	52.4606					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177
Total	**52.8672**	**2.5703**	**1.9018**	**2.9700e-003**		**0.2209**	**0.2209**		**0.2209**	**0.2209**		**281.4481**	**281.4481**	**0.0367**		**282.2177**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2598	0.3152	4.1368	7.5900e-003	0.6036	4.7200e-003	0.6083	0.1601	4.3200e-003	0.1644		654.0767	654.0767	0.0343		654.7967
Total	**0.2598**	**0.3152**	**4.1368**	**7.5900e-003**	**0.6036**	**4.7200e-003**	**0.6083**	**0.1601**	**4.3200e-003**	**0.1644**		**654.0767**	**654.0767**	**0.0343**		**654.7967**

3.5 Architectural Coating - 2015

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	52.4606					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367		282.2177
Total	**52.8672**	**2.5703**	**1.9018**	**2.9700e-003**		**0.2209**	**0.2209**		**0.2209**	**0.2209**	**0.0000**	**281.4481**	**281.4481**	**0.0367**		**282.2177**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2598	0.3152	4.1368	7.5900e-003	0.6036	4.7200e-003	0.6083	0.1601	4.3200e-003	0.1644		654.0767	654.0767	0.0343		654.7967
Total	**0.2598**	**0.3152**	**4.1368**	**7.5900e-003**	**0.6036**	**4.7200e-003**	**0.6083**	**0.1601**	**4.3200e-003**	**0.1644**		**654.0767**	**654.0767**	**0.0343**		**654.7967**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive 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	2.7372	14.0314	32.5601	0.0664	3.6299	0.2252	3.8550	0.9735	0.2070	1.1805		6,191.5489	6,191.5489	0.1901		6,195.5416
Unmitigated	3.1532	19.1814	41.5639	0.0941	5.1993	0.3192	5.5185	1.3944	0.2935	1.6879		8,778.4015	8,778.4015	0.2641		8,783.9468

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	526.63	526.63	526.63	2,417,328	1,687,644
Parking Lot	0.00	0.00	0.00		
Total	526.63	526.63	526.63	2,417,328	1,687,644

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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	20.00	0.00	80.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.432000	0.060000	0.157000	0.142000	0.030000	0.005000	0.046000	0.123000	0.000000	0.000000	0.004000	0.000000	0.000000

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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	0.0140	0.1269	0.1066	7.6000e-004		9.6400e-003	9.6400e-003		9.6400e-003	9.6400e-003		152.2641	152.2641	2.9200e-003	2.7900e-003	153.1907
NaturalGas Unmitigated	0.0198	0.1802	0.1514	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.2211	216.2211	4.1400e-003	3.9600e-003	217.5369

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					
Unrefrigerated Warehouse-No Rail	1837.88	0.0198	0.1802	0.1514	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.2211	216.2211	4.1400e-003	3.9600e-003	217.5369
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0198**	**0.1802**	**0.1514**	**1.0800e-003**		**0.0137**	**0.0137**		**0.0137**	**0.0137**		**216.2211**	**216.2211**	**4.1400e-003**	**3.9600e-003**	**217.5369**

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					
Unrefrigerated Warehouse-No Rail	1.29424	0.0140	0.1269	0.1066	7.6000e-004		9.6400e-003	9.6400e-003		9.6400e-003	9.6400e-003		152.2641	152.2641	2.9200e-003	2.7900e-003	153.1907
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0140**	**0.1269**	**0.1066**	**7.6000e-004**		**9.6400e-003**	**9.6400e-003**		**9.6400e-003**	**9.6400e-003**		**152.2641**	**152.2641**	**2.9200e-003**	**2.7900e-003**	**153.1907**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	13.5196	5.7000e-004	0.0588	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1219	0.1219	3.5000e-004		0.1293
Unmitigated	15.6324	5.7000e-004	0.0588	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1219	0.1219	3.5000e-004		0.1293

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	2.8171					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.8095					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8100e-003	5.7000e-004	0.0588	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1219	0.1219	3.5000e-004		0.1293
Total	**15.6324**	**5.7000e-004**	**0.0588**	**0.0000**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**		**0.1219**	**0.1219**	**3.5000e-004**		**0.1293**

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	0.7043					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.8095					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8100e-003	5.7000e-004	0.0588	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1219	0.1219	3.5000e-004		0.1293
Total	**13.5196**	**5.7000e-004**	**0.0588**	**0.0000**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**		**0.1219**	**0.1219**	**3.5000e-004**		**0.1293**

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

Use Water Efficient Irrigation System

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 Vegetation

Alabama Venture 1, 5416 warehouse

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	313.47	1000sqft	7.20	313,470.00	0
Parking Lot	238.00	Space	2.14	95,200.00	0
Other Non-Asphalt Surfaces	5.47	Acre	5.47	238,273.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2015
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 313.470 1000 sq ft of warehouse on 14.81 238 space parking lot and 4.73 acres of other non-asphalt surfaces.

Construction Phase - Project schedule provided by applicant

Trips and VMT - 6 vendor trucks per day added to the Site Preparation and Grading phases to account for water truck emissions

Architectural Coating - Per SCAQMD Rule 1113, architectural coatings that are applied after January 1, 2014 will be limited to 50 grams of VOC per liter

Vehicle Trips - Trip Rate set to 1.68 per 1000 sq ft to match TIA. C-W Trip length extended to 40 miles and percentage adjusted to 20

Vechicle Emission Factors - Vehicle mix revised to match TIA

Vechicle Emission Factors - Vehicle mix revised to match TIA

Vechicle Emission Factors - Vehicle mix revised to match TIA

Water And Wastewater - Indoor water use 10,518,697 gallons per year. Outdoor water use 3,576,357 gallons per year

Construction Off-road Equipment Mitigation - Water exposed areas a minimum of 3 times per day

Grading - Site is 14.81 acres

Area Coating - SCAQMD Rule 1113 50g/L VOC

Sequestration - ~1 tree per 3 parking spaces = 238 spaces / 3 spaces = 80 trees

Mobile Land Use Mitigation - 1.9 miles to downtown Redlands. Warehouse will create an average of 15 jobs per acre. Sidewalks adjacent to site and connecting off-site.

Mobile Commute Mitigation - 80% of project traffic is light vehicle, all those vehicles are eligible for ride share and van pool

Area Mitigation - SCAQMD Rule 1113

Energy Mitigation - 2013 Title 24 is 30% more efficient than 2008 Title 24

Water Mitigation - Green Building standards

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblConstructionPhase	NumDays	20.00	49.00
tblConstructionPhase	NumDays	300.00	262.00
tblConstructionPhase	NumDays	20.00	52.00

tblConstructionPhase	PhaseEndDate	10/23/2015	10/25/2015
tblGrading	AcresOfGrading	75.00	14.81
tblProjectCharacteristics	OperationalYear	2014	2015
tblSequestration	NumberOfNewTrees	0.00	80.00
tblVehicleEF	HHD	0.04	0.12
tblVehicleEF	HHD	0.04	0.12
tblVehicleEF	HHD	0.04	0.12
tblVehicleEF	LDA	0.47	0.43
tblVehicleEF	LDA	0.47	0.43
tblVehicleEF	LDA	0.47	0.43
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT2	0.17	0.16
tblVehicleEF	LDT2	0.17	0.16
tblVehicleEF	LDT2	0.17	0.16
tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD2	9.1200e-003	5.0000e-003
tblVehicleEF	LHD2	9.1200e-003	5.0000e-003
tblVehicleEF	LHD2	9.1200e-003	5.0000e-003
tblVehicleEF	MCY	4.8710e-003	4.0000e-003
tblVehicleEF	MCY	4.8710e-003	4.0000e-003
tblVehicleEF	MCY	4.8710e-003	4.0000e-003
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.16	0.14

tblVehicleEF	MH	2.9140e-003	0.00
tblVehicleEF	MH	2.9140e-003	0.00
tblVehicleEF	MH	2.9140e-003	0.00
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	OBUS	1.1190e-003	0.00
tblVehicleEF	OBUS	1.1190e-003	0.00
tblVehicleEF	OBUS	1.1190e-003	0.00
tblVehicleEF	SBUS	7.2300e-004	0.00
tblVehicleEF	SBUS	7.2300e-004	0.00
tblVehicleEF	SBUS	7.2300e-004	0.00
tblVehicleEF	UBUS	1.3380e-003	0.00
tblVehicleEF	UBUS	1.3380e-003	0.00
tblVehicleEF	UBUS	1.3380e-003	0.00
tblVehicleTrips	CNW_TTP	41.00	80.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	20.00
tblVehicleTrips	ST_TR	2.59	1.68
tblVehicleTrips	SU_TR	2.59	1.68
tblVehicleTrips	WD_TR	2.59	1.68

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					
2014	6.9498	80.8613	53.2383	0.0843	6.7692	3.8811	10.6502	3.4260	3.5706	6.9966	0.0000	8,133.0975	8,133.0975	1.9509	0.0000	8,174.0660
2015	53.1119	42.5087	49.6109	0.0845	3.7062	2.3268	6.0331	0.9964	2.1835	3.1799	0.0000	8,009.5076	8,009.5076	0.8665	0.0000	8,027.7033
Total	**60.0617**	**123.3699**	**102.8491**	**0.1688**	**10.4754**	**6.2079**	**16.6833**	**4.4225**	**5.7540**	**10.1765**	**0.0000**	**16,142.6051**	**16,142.6051**	**2.8173**	**0.0000**	**16,201.7693**

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					
2014	6.9498	80.8613	53.2383	0.0843	3.7063	3.8811	6.6574	1.3723	3.5706	4.9429	0.0000	8,133.0975	8,133.0975	1.9509	0.0000	8,174.0660
2015	53.1119	42.5087	49.6109	0.0845	3.7062	2.3268	6.0331	0.9964	2.1835	3.1799	0.0000	8,009.5076	8,009.5076	0.8665	0.0000	8,027.7033
Total	**60.0617**	**123.3699**	**102.8491**	**0.1688**	**7.4125**	**6.2079**	**12.6905**	**2.3688**	**5.7540**	**8.1228**	**0.0000**	**16,142.6051**	**16,142.6051**	**2.8173**	**0.0000**	**16,201.7693**

	ROG	NOx	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**	**29.24**	**0.00**	**23.93**	**46.44**	**0.00**	**20.18**	**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	15.6324	5.7000e-004	0.0588	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1219	0.1219	3.5000e-004		0.1293
Energy	0.0198	0.1802	0.1514	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.2211	216.2211	4.1400e-003	3.9600e-003	217.5369
Mobile	3.1169	19.9536	39.4534	0.0891	5.1993	0.3210	5.5203	1.3944	0.2951	1.6895		8,343.9531	8,343.9531	0.2646		8,349.5097
Total	**18.7691**	**20.1344**	**39.6635**	**0.0902**	**5.1993**	**0.3349**	**5.5342**	**1.3944**	**0.3090**	**1.7034**		**8,560.2960**	**8,560.2960**	**0.2691**	**3.9600e-003**	**8,567.1759**

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	13.5196	5.7000e-004	0.0588	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1219	0.1219	3.5000e-004		0.1293
Energy	0.0140	0.1269	0.1066	7.6000e-004		9.6400e-003	9.6400e-003		9.6400e-003	9.6400e-003		152.2641	152.2641	2.9200e-003	2.7900e-003	153.1907
Mobile	2.7178	14.5576	31.7750	0.0629	3.6299	0.2269	3.8568	0.9735	0.2086	1.1821		5,883.3687	5,883.3687	0.1907		5,887.3726
Total	**16.2514**	**14.6850**	**31.9404**	**0.0637**	**3.6299**	**0.2368**	**3.8666**	**0.9735**	**0.2185**	**1.1919**		**6,035.7546**	**6,035.7546**	**0.1939**	**2.7900e-003**	**6,040.6926**

	ROG	NOx	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	13.41	27.07	19.47	29.44	30.19	29.30	30.13	30.19	29.30	30.03	0.00	29.49	29.49	27.93	29.55	29.49

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	7/1/2014	8/11/2014	5	30	
2	Building Construction	Building Construction	8/12/2014	8/12/2015	5	262	
3	Paving	Paving	8/13/2015	10/25/2015	5	52	
4	Architectural Coating	Architectural Coating	10/26/2015	12/31/2015	5	49	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 14.81

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 831,899; Non-Residential Outdoor: 277,300 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	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
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	272.00	106.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	54.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2014

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					6.5456	0.0000	6.5456	3.3668	0.0000	3.3668			0.0000			0.0000
Off-Road	6.8480	80.7211	51.5831	0.0618		3.8792	3.8792		3.5689	3.5689		6,554.8337	6,554.8337	1.9370		6,595.5113
Total	**6.8480**	**80.7211**	**51.5831**	**0.0618**	**6.5456**	**3.8792**	**10.4248**	**3.3668**	**3.5689**	**6.9356**		**6,554.8337**	**6,554.8337**	**1.9370**		**6,595.5113**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1018	0.1402	1.4658	2.5500e-003	0.2236	1.8600e-003	0.2254	0.0593	1.6900e-003	0.0610		227.3831	227.3831	0.0139		227.6741
Total	**0.1018**	**0.1402**	**1.4658**	**2.5500e-003**	**0.2236**	**1.8600e-003**	**0.2254**	**0.0593**	**1.6900e-003**	**0.0610**		**227.3831**	**227.3831**	**0.0139**		**227.6741**

3.2 Grading - 2014

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					2.5528	0.0000	2.5528	1.3130	0.0000	1.3130			0.0000			0.0000
Off-Road	6.8480	80.7211	51.5831	0.0618		3.8792	3.8792		3.5689	3.5689	0.0000	6,554.8337	6,554.8337	1.9370		6,595.5113
Total	**6.8480**	**80.7211**	**51.5831**	**0.0618**	**2.5528**	**3.8792**	**6.4320**	**1.3130**	**3.5689**	**4.8819**	**0.0000**	**6,554.8337**	**6,554.8337**	**1.9370**		**6,595.5113**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1018	0.1402	1.4658	2.5500e-003	0.2236	1.8600e-003	0.2254	0.0593	1.6900e-003	0.0610		227.3831	227.3831	0.0139		227.6741
Total	**0.1018**	**0.1402**	**1.4658**	**2.5500e-003**	**0.2236**	**1.8600e-003**	**0.2254**	**0.0593**	**1.6900e-003**	**0.0610**		**227.3831**	**227.3831**	**0.0139**		**227.6741**

3.3 Building Construction - 2014

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	3.8680	31.2537	18.9298	0.0268		2.2280	2.2280		2.0973	2.0973		2,709.1969	2,709.1969	0.6889		2,723.6630
Total	**3.8680**	**31.2537**	**18.9298**	**0.0268**		**2.2280**	**2.2280**		**2.0973**	**2.0973**		**2,709.1969**	**2,709.1969**	**0.6889**		**2,723.6630**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2775	12.3206	14.3743	0.0228	0.6660	0.2434	0.9094	0.1901	0.2238	0.4140		2,331.4901	2,331.4901	0.0210		2,331.9305
Worker	1.3838	1.9066	19.9342	0.0346	3.0403	0.0253	3.0656	0.8063	0.0230	0.8293		3,092.4105	3,092.4105	0.1884		3,096.3675
Total	**2.6614**	**14.2272**	**34.3084**	**0.0575**	**3.7063**	**0.2687**	**3.9750**	**0.9965**	**0.2469**	**1.2433**		**5,423.9006**	**5,423.9006**	**0.2094**		**5,428.2980**

3.3 Building Construction - 2014

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	3.8680	31.2537	18.9298	0.0268		2.2280	2.2280		2.0973	2.0973	0.0000	2,709.1969	2,709.1969	0.6889		2,723.6630
Total	**3.8680**	**31.2537**	**18.9298**	**0.0268**		**2.2280**	**2.2280**		**2.0973**	**2.0973**	**0.0000**	**2,709.1969**	**2,709.1969**	**0.6889**		**2,723.6630**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2775	12.3206	14.3743	0.0228	0.6660	0.2434	0.9094	0.1901	0.2238	0.4140		2,331.4901	2,331.4901	0.0210		2,331.9305
Worker	1.3838	1.9066	19.9342	0.0346	3.0403	0.0253	3.0656	0.8063	0.0230	0.8293		3,092.4105	3,092.4105	0.1884		3,096.3675
Total	**2.6614**	**14.2272**	**34.3084**	**0.0575**	**3.7063**	**0.2687**	**3.9750**	**0.9965**	**0.2469**	**1.2433**		**5,423.9006**	**5,423.9006**	**0.2094**		**5,428.2980**

3.3 Building Construction - 2015

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	**3.6591**	**30.0299**	**18.7446**	**0.0268**		**2.1167**	**2.1167**		**1.9904**	**1.9904**		**2,689.5771**	**2,689.5771**	**0.6748**		**2,703.7483**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0898	10.7809	12.9968	0.0229	0.6659	0.1863	0.8522	0.1901	0.1713	0.3615		2,318.4156	2,318.4156	0.0190		2,318.8136
Worker	1.2328	1.6979	17.8696	0.0348	3.0403	0.0238	3.0641	0.8063	0.0218	0.8281		3,001.5148	3,001.5148	0.1727		3,005.1414
Total	**2.3226**	**12.4788**	**30.8663**	**0.0577**	**3.7062**	**0.2101**	**3.9163**	**0.9964**	**0.1931**	**1.1895**		**5,319.9304**	**5,319.9304**	**0.1916**		**5,323.9550**

3.3 Building Construction - 2015

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904	0.0000	2,689.5771	2,689.5771	0.6748		2,703.7483
Total	**3.6591**	**30.0299**	**18.7446**	**0.0268**		**2.1167**	**2.1167**		**1.9904**	**1.9904**	**0.0000**	**2,689.5771**	**2,689.5771**	**0.6748**		**2,703.7483**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0898	10.7809	12.9968	0.0229	0.6659	0.1863	0.8522	0.1901	0.1713	0.3615		2,318.4156	2,318.4156	0.0190		2,318.8136
Worker	1.2328	1.6979	17.8696	0.0348	3.0403	0.0238	3.0641	0.8063	0.0218	0.8281		3,001.5148	3,001.5148	0.1727		3,005.1414
Total	**2.3226**	**12.4788**	**30.8663**	**0.0577**	**3.7062**	**0.2101**	**3.9163**	**0.9964**	**0.1931**	**1.1895**		**5,319.9304**	**5,319.9304**	**0.1916**		**5,323.9550**

3.4 Paving - 2015

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	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016		2,339.8984	2,339.8984	0.6986		2,354.5681
Paving	0.1078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.4250**	**25.1758**	**14.9781**	**0.0223**		**1.4148**	**1.4148**		**1.3016**	**1.3016**		**2,339.8984**	**2,339.8984**	**0.6986**		**2,354.5681**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0680	0.0936	0.9855	1.9200e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2000e-003	0.0457		165.5247	165.5247	9.5200e-003		165.7247
Total	**0.0680**	**0.0936**	**0.9855**	**1.9200e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2000e-003**	**0.0457**		**165.5247**	**165.5247**	**9.5200e-003**		**165.7247**

3.4 Paving - 2015

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	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016	0.0000	2,339.8984	2,339.8984	0.6986		2,354.5681
Paving	0.1078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.4250**	**25.1758**	**14.9781**	**0.0223**		**1.4148**	**1.4148**		**1.3016**	**1.3016**	**0.0000**	**2,339.8984**	**2,339.8984**	**0.6986**		**2,354.5681**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0680	0.0936	0.9855	1.9200e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2000e-003	0.0457		165.5247	165.5247	9.5200e-003		165.7247
Total	**0.0680**	**0.0936**	**0.9855**	**1.9200e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2000e-003**	**0.0457**		**165.5247**	**165.5247**	**9.5200e-003**		**165.7247**

3.5 Architectural Coating - 2015

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	52.4606					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177
Total	**52.8672**	**2.5703**	**1.9018**	**2.9700e-003**		**0.2209**	**0.2209**		**0.2209**	**0.2209**		**281.4481**	**281.4481**	**0.0367**		**282.2177**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2448	0.3371	3.5476	6.9100e-003	0.6036	4.7200e-003	0.6083	0.1601	4.3200e-003	0.1644		595.8890	595.8890	0.0343		596.6090
Total	**0.2448**	**0.3371**	**3.5476**	**6.9100e-003**	**0.6036**	**4.7200e-003**	**0.6083**	**0.1601**	**4.3200e-003**	**0.1644**		**595.8890**	**595.8890**	**0.0343**		**596.6090**

3.5 Architectural Coating - 2015

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	52.4606					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367		282.2177
Total	**52.8672**	**2.5703**	**1.9018**	**2.9700e-003**		**0.2209**	**0.2209**		**0.2209**	**0.2209**	**0.0000**	**281.4481**	**281.4481**	**0.0367**		**282.2177**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2448	0.3371	3.5476	6.9100e-003	0.6036	4.7200e-003	0.6083	0.1601	4.3200e-003	0.1644		595.8890	595.8890	0.0343		596.6090
Total	**0.2448**	**0.3371**	**3.5476**	**6.9100e-003**	**0.6036**	**4.7200e-003**	**0.6083**	**0.1601**	**4.3200e-003**	**0.1644**		**595.8890**	**595.8890**	**0.0343**		**596.6090**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive 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	2.7178	14.5576	31.7750	0.0629	3.6299	0.2269	3.8568	0.9735	0.2086	1.1821		5,883.3687	5,883.3687	0.1907		5,887.3726
Unmitigated	3.1169	19.9536	39.4534	0.0891	5.1993	0.3210	5.5203	1.3944	0.2951	1.6895		8,343.9531	8,343.9531	0.2646		8,349.5097

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	526.63	526.63	526.63	2,417,328	1,687,644
Parking Lot	0.00	0.00	0.00		
Total	526.63	526.63	526.63	2,417,328	1,687,644

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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	20.00	0.00	80.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.432000	0.060000	0.157000	0.142000	0.030000	0.005000	0.046000	0.123000	0.000000	0.000000	0.004000	0.000000	0.000000

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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	0.0140	0.1269	0.1066	7.6000e-004		9.6400e-003	9.6400e-003		9.6400e-003	9.6400e-003		152.2641	152.2641	2.9200e-003	2.7900e-003	153.1907
NaturalGas Unmitigated	0.0198	0.1802	0.1514	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.2211	216.2211	4.1400e-003	3.9600e-003	217.5369

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					
Unrefrigerated Warehouse-No Rail	1837.88	0.0198	0.1802	0.1514	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.2211	216.2211	4.1400e-003	3.9600e-003	217.5369
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0198**	**0.1802**	**0.1514**	**1.0800e-003**		**0.0137**	**0.0137**		**0.0137**	**0.0137**		**216.2211**	**216.2211**	**4.1400e-003**	**3.9600e-003**	**217.5369**

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					
Unrefrigerated Warehouse-No Rail	1.29424	0.0140	0.1269	0.1066	7.6000e-004		9.6400e-003	9.6400e-003		9.6400e-003	9.6400e-003		152.2641	152.2641	2.9200e-003	2.7900e-003	153.1907
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0140**	**0.1269**	**0.1066**	**7.6000e-004**		**9.6400e-003**	**9.6400e-003**		**9.6400e-003**	**9.6400e-003**		**152.2641**	**152.2641**	**2.9200e-003**	**2.7900e-003**	**153.1907**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	13.5196	5.7000e-004	0.0588	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1219	0.1219	3.5000e-004		0.1293
Unmitigated	15.6324	5.7000e-004	0.0588	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1219	0.1219	3.5000e-004		0.1293

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	2.8171					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.8095					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8100e-003	5.7000e-004	0.0588	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1219	0.1219	3.5000e-004		0.1293
Total	**15.6324**	**5.7000e-004**	**0.0588**	**0.0000**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**		**0.1219**	**0.1219**	**3.5000e-004**		**0.1293**

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	0.7043					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.8095					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8100e-003	5.7000e-004	0.0588	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1219	0.1219	3.5000e-004		0.1293
Total	**13.5196**	**5.7000e-004**	**0.0588**	**0.0000**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**		**0.1219**	**0.1219**	**3.5000e-004**		**0.1293**

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

Use Water Efficient Irrigation System

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

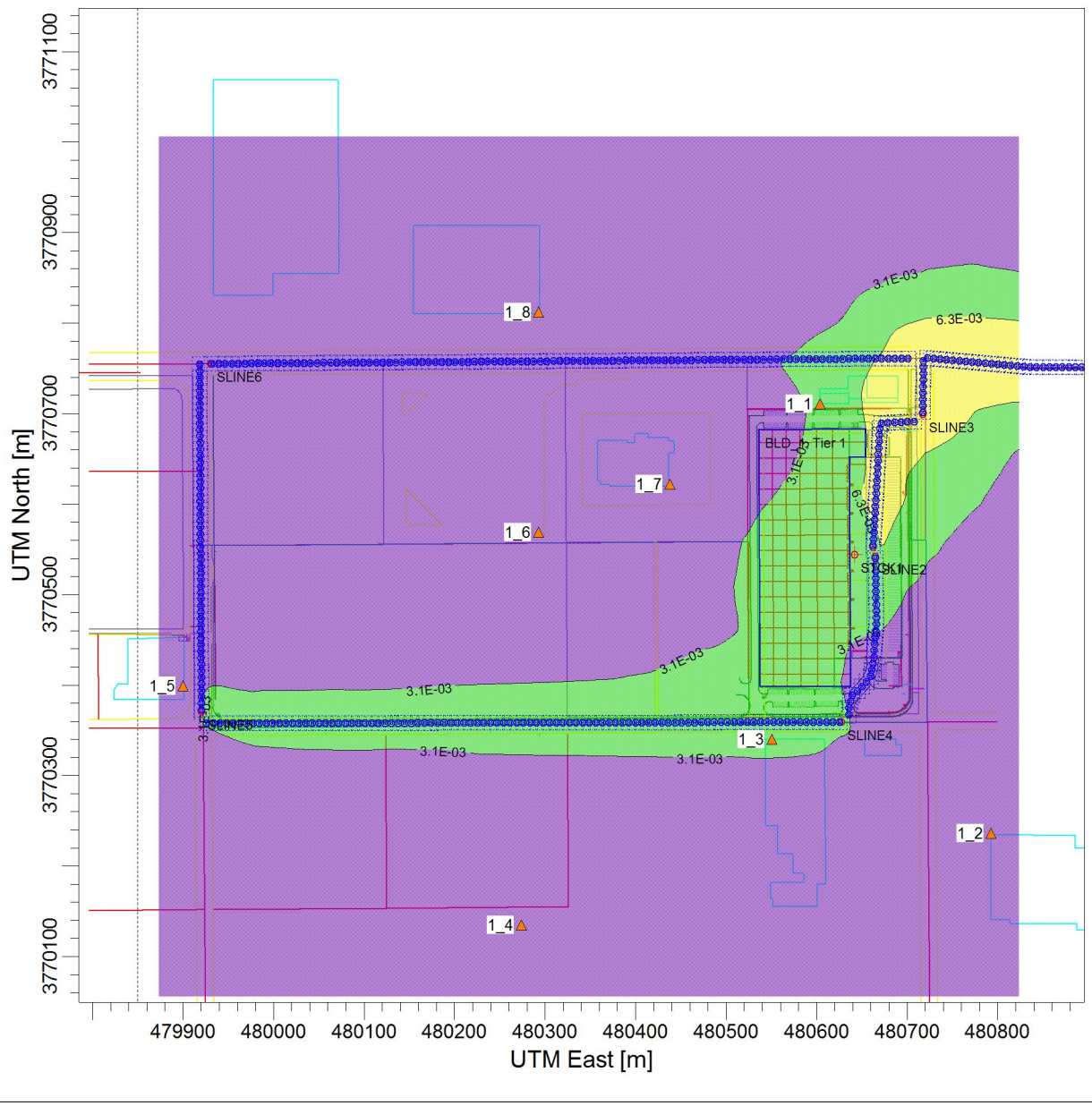
10.0 Vegetation

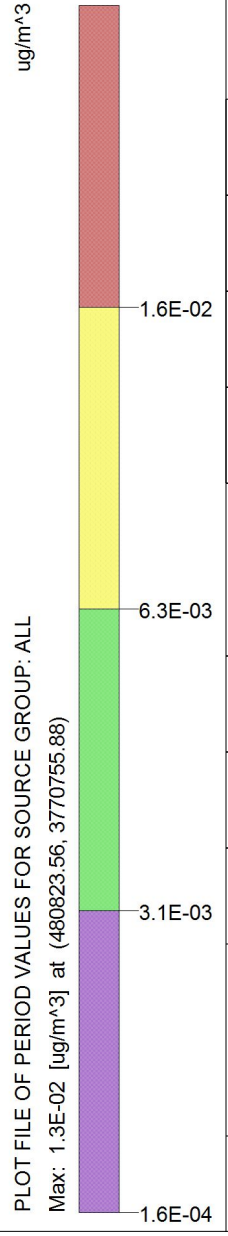
APPENDIX C

AERMOD Model Printouts

PROJECT TITLE:

Alabama Venture 1
Modeled Study Area DPM Emissions





COMMENTS:

Red = 5 in one million risk
Yellow = 2 in one million risk
Green = 1 in one million risk
Purple = 0.5 in one million risk

SOURCES:

7

RECEPTORS:

408

OUTPUT TYPE:

Concentration

MAX:

1.3E-02 ug/m^3

COMPANY NAME:

Kunzman Associates

MODELER:

Katie Wilson

DATE:

6/12/2014

SCALE: 1:7,483

0 0.2 km

PROJECT NO.:

5416

Emission Assumptions **DPM** Emissions
Warehouse

Facility Operations

Buildout year: 2015

Emission Factors

1) Onsite Vehicle Emissions

a) Truck

(1) EMFAC2011

(a) Annual Meteorology

Temperature: 64 degF

Relative Humidity: 50%

(b) Calculations for San Bernardino County

(c) Truck Mix

4+ axle heavy-heavy duty diesel trucks (HHDT)

4 axle diesel trucks (MHDT)

2 axle diesel trucks (LHDT2)

(d) Onsite Truck Travel Speed: 10 mph

(e) Off-site Truck Travel Speed: 35 mph

(f) Idle speed: 0 mph

(g) Truck Idle time: 15 minutes per truck per day

2) Other Parameters

(a) Width of Plume: 12 feet

(b) Truck Operational Schedule 24 hours/day

Warehouse | **Emission:** DPM

Processes Modeled | **Build-out:** 2015

Onsite delivery traffic
Truck idling
Offsite delivery traffic

Facilities in Operation

Location	Truck type	Daily trucks
Site	HHDT	64
Site	MHDT	24
Site	LHDT	18
Total		**106**

Delivery Schedule:
Site 24 **hrs/day, 52weeks/year**

Emission Factors

Vehicle Class	Onsite Exhaust (g/mi)	Offsite Exhaust (g/mi)	Idle (g/hr)
HHDT	0.0791	0.0607	0.113
MHDT	0.0456	0.0324	0.103
LHDT	0.0532	0.0209	0.107

Onsite Roadway Links Modeled

Link	Truck Type	Emission Factor (g/mi)	Trips per day (in and out)	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	Total Daily Emissions for all Vehicles (g/sec)
Blgs 1	HHDT	0.0791	64	176.6	0.11	5.55E-01	6.43E-06	4.40E+00	1.22E-03	2.23E-04	
Blgs 1	MHDT	0.0456	24	176.6	0.11	1.20E-01	1.39E-06	9.52E-01	2.64E-04	4.83E-05	9.03E-06
Blgs 1	LHDT	0.0532	18	176.6	0.11	1.05E-01	1.22E-06	8.33E-01	2.31E-04	4.22E-05	**2.26E-06**
											for each driveway

Truck Idling Idle time 15 minutes

Building/Location	Truck Type	Emission Factor (g/idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)		
Blg 1	HHDT	0.113	15	64	1.81	2.09E-05	1.66E-04	3.98E-03	7.27E-04		
Blg 1	MHDT	0.103	15	24	0.62	7.15E-06	5.67E-05	1.36E-03	2.48E-04		3.37E-05
Blg 1	LHDT	0.107	15	18	0.48	5.57E-06	4.42E-05	1.06E-03	1.94E-04		

Offsite Roadway Links Modeled

Link	Truck Type	Emission Factor (g/mi)	Trips per day	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	
N on Alabama E on San Bernardino	HHDT	0.0607	64	260.5	0.16	6.29E-01	7.28E-06	4.98E+00	1.38E-03	2.53E-04	
N on Alabama E on San Bernardino	MHDT	0.0324	24	260.5	0.16	1.26E-01	1.46E-06	9.98E-01	2.77E-04	5.06E-05	9.44E-06
N on Alabama E on San Bernardino	LHDT	0.0209	18	260.5	0.16	6.09E-02	7.05E-07	4.83E-01	1.34E-04	2.45E-05	**2.36E-06**
											25% of truck traffic
E on San Bernardino	HHDT	0.0607	64	772.6	0.48	1.86E+00	2.16E-05	1.48E+01	4.11E-03	7.49E-04	
E on San Bernardino	MHDT	0.0324	24	772.6	0.48	3.73E-01	4.32E-06	2.96E+00	8.22E-04	1.50E-04	2.80E-05
E on San Bernardino	LHDT	0.0209	18	772.6	0.48	1.81E-01	2.09E-06	1.43E+00	3.98E-04	7.26E-05	**8.40E-06**
											30% of truck traffic
W on Almond	HHDT	0.0607	64	702.7	0.44	1.70E+00	1.96E-05	1.34E+01	3.74E-03	6.82E-04	
W on Almond	MHDT	0.0324	24	702.7	0.44	3.39E-01	3.93E-06	2.69E+00	7.48E-04	1.36E-04	2.55E-05
W on Almond	LHDT	0.0209	18	702.7	0.44	1.64E-01	1.90E-06	1.30E+00	3.62E-04	6.60E-05	**2.55E-05**
											100% of truck traffic
N on Nevada	HHDT	0.0607	64	385.3	0.24	9.30E-01	1.08E-05	7.37E+00	2.05E-03	3.74E-04	
N on Nevada	MHDT	0.0324	24	385.3	0.24	1.86E-01	2.15E-06	1.48E+00	4.10E-04	7.48E-05	1.40E-05
N on Nevada	LHDT	0.0209	18	385.3	0.24	9.00E-02	1.04E-06	7.14E-01	1.98E-04	3.62E-05	**5.58E-06**
											40% of truck traffic

MICR Calculations

Receptor	DPM* Conc (µg/m3)	DBR** (Daily Breathing rate)	EVF*** (Exposure Value Factor)		CP**** (Cancer Potency Factor)	MICR (Maximum Individual Cancer Risk)	Cancer risk per million
1	0.00342	302	0.96	1.00E-06	1.1	1.09E-06	1.1
2	0.00049	149	0.38	1.00E-06	1.1	3.05E-08	0.0
3	0.00466	149	0.38	1.00E-06	1.1	2.90E-07	0.3
4	0.00071	302	0.96	1.00E-06	1.1	2.26E-07	0.2
5	0.00243	149	0.38	1.00E-06	1.1	1.51E-07	0.2
6	0.00124	302	0.96	1.00E-06	1.1	3.95E-07	0.4
7	0.00161	302	0.96	1.00E-06	1.1	5.13E-07	0.5
8	0.00126	149	0.38	1.00E-06	1.1	7.85E-08	0.1
Max	0.01335	149	0.38	1.00E-06	1.1	8.31E-07	0.8

* DPM concentration calculated by AERMOD

** DBR fromTable 9A of 2012 "AQMD Risk Assessment Procedures for Rules 1401 and 212"

*** EVF from Table 9B of 2012 "AQMD Risk Assessment Procedures for Rules 1401 and 212"

**** CP for DPM value from 2013 "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values"

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.7.0
** Lakes Environmental Software Inc.
** Date: 6/12/2014
** File: C:\Users\Kate Wilson\Desktop\Kunzman Projects\5482 Chiming AQ-GHG redo\HRA\5482 Chiming\5482 Chiming.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Chiming Inc 5482
   TITLETWO DPM Emissions
   MODELOPT CONC  FASTALL
   AVERTIME ANNUAL
   URBANOPT 2015355 San_Bernardino_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "5482 Chiming.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION STCK1        POINT      480272.450  3770436.580      367.750
** DESCRSRC on site idling
** ------------------------------------------------------------------------
** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC on-site travel 1
** PREFIX
** Length of Side = 3.66
** Configuration = Separated
** Emission Rate = 7.11E-06
** Elevated
** Building Height = 12.19
** SZINIT = 5.67
** Nodes = 3
```

```
** 480011.687, 3770386.310, 364.00, 0.00, 3.38
** 480011.217, 3770409.802, 364.00, 0.00, 3.38
** 480267.280, 3770410.742, 367.51, 0.00, 3.38
** ----------------------------------------------------------------
   LOCATION L0000001     VOLUME   480011.651 3770388.139 364.00
   LOCATION L0000002     VOLUME   480011.505 3770395.398 364.00
   LOCATION L0000003     VOLUME   480011.360 3770402.657 364.00
   LOCATION L0000004     VOLUME   480011.331 3770409.803 364.00
   LOCATION L0000005     VOLUME   480018.592 3770409.829 364.00
   LOCATION L0000006     VOLUME   480025.852 3770409.856 364.00
   LOCATION L0000007     VOLUME   480033.113 3770409.883 364.00
   LOCATION L0000008     VOLUME   480040.374 3770409.909 364.02
   LOCATION L0000009     VOLUME   480047.634 3770409.936 364.26
   LOCATION L0000010     VOLUME   480054.895 3770409.963 364.50
   LOCATION L0000011     VOLUME   480062.155 3770409.989 364.74
   LOCATION L0000012     VOLUME   480069.416 3770410.016 364.98
   LOCATION L0000013     VOLUME   480076.677 3770410.042 365.00
   LOCATION L0000014     VOLUME   480083.937 3770410.069 365.00
   LOCATION L0000015     VOLUME   480091.198 3770410.096 365.00
   LOCATION L0000016     VOLUME   480098.458 3770410.122 365.00
   LOCATION L0000017     VOLUME   480105.719 3770410.149 365.04
   LOCATION L0000018     VOLUME   480112.979 3770410.176 365.09
   LOCATION L0000019     VOLUME   480120.240 3770410.202 365.14
   LOCATION L0000020     VOLUME   480127.501 3770410.229 365.19
   LOCATION L0000021     VOLUME   480134.761 3770410.256 365.33
   LOCATION L0000022     VOLUME   480142.022 3770410.282 365.52
   LOCATION L0000023     VOLUME   480149.282 3770410.309 365.72
   LOCATION L0000024     VOLUME   480156.543 3770410.336 365.91
   LOCATION L0000025     VOLUME   480163.804 3770410.362 366.00
   LOCATION L0000026     VOLUME   480171.064 3770410.389 366.00
   LOCATION L0000027     VOLUME   480178.325 3770410.415 366.00
   LOCATION L0000028     VOLUME   480185.585 3770410.442 366.00
   LOCATION L0000029     VOLUME   480192.846 3770410.469 366.10
   LOCATION L0000030     VOLUME   480200.106 3770410.495 366.34
   LOCATION L0000031     VOLUME   480207.367 3770410.522 366.58
   LOCATION L0000032     VOLUME   480214.628 3770410.549 366.82
   LOCATION L0000033     VOLUME   480221.888 3770410.575 367.00
   LOCATION L0000034     VOLUME   480229.149 3770410.602 367.00
   LOCATION L0000035     VOLUME   480236.409 3770410.629 367.00
   LOCATION L0000036     VOLUME   480243.670 3770410.655 367.00
   LOCATION L0000037     VOLUME   480250.930 3770410.682 367.03
   LOCATION L0000038     VOLUME   480258.191 3770410.709 367.28
   LOCATION L0000039     VOLUME   480265.452 3770410.735 367.52
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------
** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC on-site travel 2
** PREFIX
** Length of Side = 3.66
** Configuration = Separated
```

```
** Emission Rate = 7.11E-06
** Elevated
** Building Height = 12.19
** SZINIT = 5.67
** Nodes = 3
** 480273.388, 3770412.151, 367.90, 0.00, 3.34
** 480533.210, 3770412.621, 371.32, 0.00, 3.34
** 480536.029, 3770389.129, 371.57, 0.00, 3.34
** ------------------------------------------------------------------
   LOCATION L0007236     VOLUME   480275.217 3770412.155 367.84
   LOCATION L0007237     VOLUME   480282.392 3770412.168 368.00
   LOCATION L0007238     VOLUME   480289.567 3770412.181 368.00
   LOCATION L0007239     VOLUME   480296.742 3770412.194 368.00
   LOCATION L0007240     VOLUME   480303.917 3770412.207 368.00
   LOCATION L0007241     VOLUME   480311.092 3770412.220 368.04
   LOCATION L0007242     VOLUME   480318.267 3770412.233 368.28
   LOCATION L0007243     VOLUME   480325.442 3770412.246 368.52
   LOCATION L0007244     VOLUME   480332.617 3770412.259 368.76
   LOCATION L0007245     VOLUME   480339.792 3770412.272 369.00
   LOCATION L0007246     VOLUME   480346.967 3770412.285 369.00
   LOCATION L0007247     VOLUME   480354.142 3770412.297 369.00
   LOCATION L0007248     VOLUME   480361.317 3770412.310 369.00
   LOCATION L0007249     VOLUME   480368.492 3770412.323 369.00
   LOCATION L0007250     VOLUME   480375.667 3770412.336 369.19
   LOCATION L0007251     VOLUME   480382.842 3770412.349 369.43
   LOCATION L0007252     VOLUME   480390.017 3770412.362 369.67
   LOCATION L0007253     VOLUME   480397.192 3770412.375 369.91
   LOCATION L0007254     VOLUME   480404.367 3770412.388 370.00
   LOCATION L0007255     VOLUME   480411.542 3770412.401 370.00
   LOCATION L0007256     VOLUME   480418.717 3770412.414 370.00
   LOCATION L0007257     VOLUME   480425.892 3770412.427 370.00
   LOCATION L0007258     VOLUME   480433.067 3770412.440 370.00
   LOCATION L0007259     VOLUME   480440.242 3770412.453 370.00
   LOCATION L0007260     VOLUME   480447.417 3770412.466 370.00
   LOCATION L0007261     VOLUME   480454.592 3770412.479 370.00
   LOCATION L0007262     VOLUME   480461.767 3770412.492 370.06
   LOCATION L0007263     VOLUME   480468.942 3770412.505 370.30
   LOCATION L0007264     VOLUME   480476.117 3770412.518 370.54
   LOCATION L0007265     VOLUME   480483.292 3770412.531 370.78
   LOCATION L0007266     VOLUME   480490.467 3770412.544 371.00
   LOCATION L0007267     VOLUME   480497.642 3770412.557 371.00
   LOCATION L0007268     VOLUME   480504.817 3770412.570 371.00
   LOCATION L0007269     VOLUME   480511.992 3770412.583 371.00
   LOCATION L0007270     VOLUME   480519.167 3770412.596 371.00
   LOCATION L0007271     VOLUME   480526.342 3770412.609 371.21
   LOCATION L0007272     VOLUME   480533.247 3770412.317 371.45
   LOCATION L0007273     VOLUME   480534.102 3770405.193 371.47
   LOCATION L0007274     VOLUME   480534.956 3770398.069 371.50
   LOCATION L0007275     VOLUME   480535.811 3770390.945 371.53
** End of LINE VOLUME Source ID = SLINE2
** ------------------------------------------------------------------
```

```
** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC off-site west on Almond
** PREFIX
** Length of Side = 3.66
** Configuration = Separated
** Emission Rate = 0.00005
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 480523.547, 3770381.738, 371.12, 0.00, 3.39
** 479455.894, 3770374.263, 357.00, 0.00, 3.39
** ------------------------------------------------------------------
   LOCATION L0007276     VOLUME   480521.718 3770381.725 371.20
   LOCATION L0007277     VOLUME   480514.430 3770381.674 371.13
   LOCATION L0007278     VOLUME   480507.143 3770381.623 371.09
   LOCATION L0007279     VOLUME   480499.855 3770381.572 371.05
   LOCATION L0007280     VOLUME   480492.568 3770381.521 371.01
   LOCATION L0007281     VOLUME   480485.280 3770381.470 370.87
   LOCATION L0007282     VOLUME   480477.992 3770381.419 370.67
   LOCATION L0007283     VOLUME   480470.705 3770381.368 370.47
   LOCATION L0007284     VOLUME   480463.417 3770381.317 370.26
   LOCATION L0007285     VOLUME   480456.129 3770381.266 370.15
   LOCATION L0007286     VOLUME   480448.842 3770381.215 370.11
   LOCATION L0007287     VOLUME   480441.554 3770381.164 370.07
   LOCATION L0007288     VOLUME   480434.266 3770381.113 370.03
   LOCATION L0007289     VOLUME   480426.979 3770381.062 370.00
   LOCATION L0007290     VOLUME   480419.691 3770381.011 370.00
   LOCATION L0007291     VOLUME   480412.404 3770380.960 370.00
   LOCATION L0007292     VOLUME   480405.116 3770380.909 370.00
   LOCATION L0007293     VOLUME   480397.828 3770380.858 369.93
   LOCATION L0007294     VOLUME   480390.541 3770380.807 369.69
   LOCATION L0007295     VOLUME   480383.253 3770380.756 369.45
   LOCATION L0007296     VOLUME   480375.965 3770380.705 369.20
   LOCATION L0007297     VOLUME   480368.678 3770380.654 369.00
   LOCATION L0007298     VOLUME   480361.390 3770380.603 369.00
   LOCATION L0007299     VOLUME   480354.102 3770380.552 369.00
   LOCATION L0007300     VOLUME   480346.815 3770380.501 369.00
   LOCATION L0007301     VOLUME   480339.527 3770380.450 368.99
   LOCATION L0007302     VOLUME   480332.240 3770380.399 368.74
   LOCATION L0007303     VOLUME   480324.952 3770380.347 368.50
   LOCATION L0007304     VOLUME   480317.664 3770380.296 368.26
   LOCATION L0007305     VOLUME   480310.377 3770380.245 368.02
   LOCATION L0007306     VOLUME   480303.089 3770380.194 368.00
   LOCATION L0007307     VOLUME   480295.801 3770380.143 368.00
   LOCATION L0007308     VOLUME   480288.514 3770380.092 368.00
   LOCATION L0007309     VOLUME   480281.226 3770380.041 368.00
   LOCATION L0007310     VOLUME   480273.938 3770379.990 367.80
   LOCATION L0007311     VOLUME   480266.651 3770379.939 367.56
   LOCATION L0007312     VOLUME   480259.363 3770379.888 367.32
```

```
LOCATION L0007313     VOLUME   480252.075 3770379.837 367.07
LOCATION L0007314     VOLUME   480244.788 3770379.786 367.00
LOCATION L0007315     VOLUME   480237.500 3770379.735 367.00
LOCATION L0007316     VOLUME   480230.213 3770379.684 367.00
LOCATION L0007317     VOLUME   480222.925 3770379.633 367.00
LOCATION L0007318     VOLUME   480215.637 3770379.582 366.86
LOCATION L0007319     VOLUME   480208.350 3770379.531 366.62
LOCATION L0007320     VOLUME   480201.062 3770379.480 366.37
LOCATION L0007321     VOLUME   480193.774 3770379.429 366.13
LOCATION L0007322     VOLUME   480186.487 3770379.378 366.00
LOCATION L0007323     VOLUME   480179.199 3770379.327 366.00
LOCATION L0007324     VOLUME   480171.911 3770379.276 366.00
LOCATION L0007325     VOLUME   480164.624 3770379.225 366.00
LOCATION L0007326     VOLUME   480157.336 3770379.174 366.00
LOCATION L0007327     VOLUME   480150.049 3770379.123 366.00
LOCATION L0007328     VOLUME   480142.761 3770379.072 366.00
LOCATION L0007329     VOLUME   480135.473 3770379.021 366.00
LOCATION L0007330     VOLUME   480128.186 3770378.970 365.94
LOCATION L0007331     VOLUME   480120.898 3770378.919 365.70
LOCATION L0007332     VOLUME   480113.610 3770378.868 365.46
LOCATION L0007333     VOLUME   480106.323 3770378.817 365.21
LOCATION L0007334     VOLUME   480099.035 3770378.766 365.00
LOCATION L0007335     VOLUME   480091.747 3770378.715 365.00
LOCATION L0007336     VOLUME   480084.460 3770378.664 365.00
LOCATION L0007337     VOLUME   480077.172 3770378.613 365.00
LOCATION L0007338     VOLUME   480069.885 3770378.562 365.00
LOCATION L0007339     VOLUME   480062.597 3770378.511 364.76
LOCATION L0007340     VOLUME   480055.309 3770378.460 364.51
LOCATION L0007341     VOLUME   480048.022 3770378.409 364.27
LOCATION L0007342     VOLUME   480040.734 3770378.358 364.03
LOCATION L0007343     VOLUME   480033.446 3770378.307 364.00
LOCATION L0007344     VOLUME   480026.159 3770378.256 364.00
LOCATION L0007345     VOLUME   480018.871 3770378.205 364.00
LOCATION L0007346     VOLUME   480011.583 3770378.154 364.00
LOCATION L0007347     VOLUME   480004.296 3770378.103 364.00
LOCATION L0007348     VOLUME   479997.008 3770378.052 364.00
LOCATION L0007349     VOLUME   479989.721 3770378.000 364.00
LOCATION L0007350     VOLUME   479982.433 3770377.949 364.00
LOCATION L0007351     VOLUME   479975.145 3770377.898 363.84
LOCATION L0007352     VOLUME   479967.858 3770377.847 363.60
LOCATION L0007353     VOLUME   479960.570 3770377.796 363.36
LOCATION L0007354     VOLUME   479953.282 3770377.745 363.11
LOCATION L0007355     VOLUME   479945.995 3770377.694 363.00
LOCATION L0007356     VOLUME   479938.707 3770377.643 363.00
LOCATION L0007357     VOLUME   479931.419 3770377.592 363.00
LOCATION L0007358     VOLUME   479924.132 3770377.541 363.00
LOCATION L0007359     VOLUME   479916.844 3770377.490 362.93
LOCATION L0007360     VOLUME   479909.556 3770377.439 362.76
LOCATION L0007361     VOLUME   479902.269 3770377.388 362.59
LOCATION L0007362     VOLUME   479894.981 3770377.337 362.42
LOCATION L0007363     VOLUME   479887.694 3770377.286 362.28
```

```
LOCATION L0007364     VOLUME   479880.406 3770377.235 362.21
LOCATION L0007365     VOLUME   479873.118 3770377.184 362.13
LOCATION L0007366     VOLUME   479865.831 3770377.133 362.06
LOCATION L0007367     VOLUME   479858.543 3770377.082 362.00
LOCATION L0007368     VOLUME   479851.255 3770377.031 362.00
LOCATION L0007369     VOLUME   479843.968 3770376.980 362.00
LOCATION L0007370     VOLUME   479836.680 3770376.929 362.00
LOCATION L0007371     VOLUME   479829.392 3770376.878 361.98
LOCATION L0007372     VOLUME   479822.105 3770376.827 361.74
LOCATION L0007373     VOLUME   479814.817 3770376.776 361.50
LOCATION L0007374     VOLUME   479807.530 3770376.725 361.25
LOCATION L0007375     VOLUME   479800.242 3770376.674 361.01
LOCATION L0007376     VOLUME   479792.954 3770376.623 361.00
LOCATION L0007377     VOLUME   479785.667 3770376.572 361.00
LOCATION L0007378     VOLUME   479778.379 3770376.521 361.00
LOCATION L0007379     VOLUME   479771.091 3770376.470 361.00
LOCATION L0007380     VOLUME   479763.804 3770376.419 360.80
LOCATION L0007381     VOLUME   479756.516 3770376.368 360.55
LOCATION L0007382     VOLUME   479749.228 3770376.317 360.31
LOCATION L0007383     VOLUME   479741.941 3770376.266 360.07
LOCATION L0007384     VOLUME   479734.653 3770376.215 360.00
LOCATION L0007385     VOLUME   479727.366 3770376.164 360.00
LOCATION L0007386     VOLUME   479720.078 3770376.113 360.00
LOCATION L0007387     VOLUME   479712.790 3770376.062 360.00
LOCATION L0007388     VOLUME   479705.503 3770376.011 360.00
LOCATION L0007389     VOLUME   479698.215 3770375.960 360.00
LOCATION L0007390     VOLUME   479690.927 3770375.909 360.00
LOCATION L0007391     VOLUME   479683.640 3770375.858 360.00
LOCATION L0007392     VOLUME   479676.352 3770375.807 359.88
LOCATION L0007393     VOLUME   479669.064 3770375.756 359.64
LOCATION L0007394     VOLUME   479661.777 3770375.704 359.40
LOCATION L0007395     VOLUME   479654.489 3770375.653 359.15
LOCATION L0007396     VOLUME   479647.202 3770375.602 359.00
LOCATION L0007397     VOLUME   479639.914 3770375.551 359.00
LOCATION L0007398     VOLUME   479632.626 3770375.500 359.00
LOCATION L0007399     VOLUME   479625.339 3770375.449 359.00
LOCATION L0007400     VOLUME   479618.051 3770375.398 359.00
LOCATION L0007401     VOLUME   479610.763 3770375.347 359.00
LOCATION L0007402     VOLUME   479603.476 3770375.296 359.00
LOCATION L0007403     VOLUME   479596.188 3770375.245 359.00
LOCATION L0007404     VOLUME   479588.900 3770375.194 358.97
LOCATION L0007405     VOLUME   479581.613 3770375.143 358.72
LOCATION L0007406     VOLUME   479574.325 3770375.092 358.48
LOCATION L0007407     VOLUME   479567.038 3770375.041 358.24
LOCATION L0007408     VOLUME   479559.750 3770374.990 358.00
LOCATION L0007409     VOLUME   479552.462 3770374.939 358.00
LOCATION L0007410     VOLUME   479545.175 3770374.888 358.00
LOCATION L0007411     VOLUME   479537.887 3770374.837 358.00
LOCATION L0007412     VOLUME   479530.599 3770374.786 358.00
LOCATION L0007413     VOLUME   479523.312 3770374.735 358.00
LOCATION L0007414     VOLUME   479516.024 3770374.684 358.00
```

```
   LOCATION L0007415     VOLUME   479508.736 3770374.633 358.00
   LOCATION L0007416     VOLUME   479501.449 3770374.582 358.00
   LOCATION L0007417     VOLUME   479494.161 3770374.531 357.81
   LOCATION L0007418     VOLUME   479486.873 3770374.480 357.57
   LOCATION L0007419     VOLUME   479479.586 3770374.429 357.32
   LOCATION L0007420     VOLUME   479472.298 3770374.378 357.08
   LOCATION L0007421     VOLUME   479465.011 3770374.327 357.00
   LOCATION L0007422     VOLUME   479457.723 3770374.276 357.00
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Off sote N on Nevada
** PREFIX
** Length of Side = 3.66
** Configuration = Separated
** Emission Rate = 9.41E-06
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 479931.487, 3770392.238, 362.95, 0.00, 3.37
** 479928.885, 3770765.533, 362.93, 0.00, 3.37
** ----------------------------------------------------------------------
   LOCATION L0007423     VOLUME   479931.474 3770394.067 363.00
   LOCATION L0007424     VOLUME   479931.424 3770401.315 363.00
   LOCATION L0007425     VOLUME   479931.373 3770408.563 363.00
   LOCATION L0007426     VOLUME   479931.322 3770415.810 363.00
   LOCATION L0007427     VOLUME   479931.272 3770423.058 363.00
   LOCATION L0007428     VOLUME   479931.221 3770430.306 363.00
   LOCATION L0007429     VOLUME   479931.171 3770437.554 363.00
   LOCATION L0007430     VOLUME   479931.120 3770444.802 363.00
   LOCATION L0007431     VOLUME   479931.070 3770452.049 363.00
   LOCATION L0007432     VOLUME   479931.019 3770459.297 363.00
   LOCATION L0007433     VOLUME   479930.969 3770466.545 363.00
   LOCATION L0007434     VOLUME   479930.918 3770473.793 363.00
   LOCATION L0007435     VOLUME   479930.868 3770481.040 363.00
   LOCATION L0007436     VOLUME   479930.817 3770488.288 363.00
   LOCATION L0007437     VOLUME   479930.767 3770495.536 363.00
   LOCATION L0007438     VOLUME   479930.716 3770502.784 363.00
   LOCATION L0007439     VOLUME   479930.666 3770510.032 363.00
   LOCATION L0007440     VOLUME   479930.615 3770517.279 363.00
   LOCATION L0007441     VOLUME   479930.565 3770524.527 363.00
   LOCATION L0007442     VOLUME   479930.514 3770531.775 363.00
   LOCATION L0007443     VOLUME   479930.464 3770539.023 363.00
   LOCATION L0007444     VOLUME   479930.413 3770546.271 363.00
   LOCATION L0007445     VOLUME   479930.363 3770553.518 363.00
   LOCATION L0007446     VOLUME   479930.312 3770560.766 363.00
   LOCATION L0007447     VOLUME   479930.262 3770568.014 363.00
   LOCATION L0007448     VOLUME   479930.211 3770575.262 363.00
   LOCATION L0007449     VOLUME   479930.161 3770582.510 363.00
```

```
   LOCATION L0007450     VOLUME   479930.110 3770589.757 363.00
   LOCATION L0007451     VOLUME   479930.060 3770597.005 363.00
   LOCATION L0007452     VOLUME   479930.009 3770604.253 363.00
   LOCATION L0007453     VOLUME   479929.959 3770611.501 363.00
   LOCATION L0007454     VOLUME   479929.908 3770618.749 363.00
   LOCATION L0007455     VOLUME   479929.858 3770625.996 363.00
   LOCATION L0007456     VOLUME   479929.807 3770633.244 363.00
   LOCATION L0007457     VOLUME   479929.757 3770640.492 363.00
   LOCATION L0007458     VOLUME   479929.706 3770647.740 363.00
   LOCATION L0007459     VOLUME   479929.656 3770654.988 363.00
   LOCATION L0007460     VOLUME   479929.605 3770662.235 363.00
   LOCATION L0007461     VOLUME   479929.555 3770669.483 363.00
   LOCATION L0007462     VOLUME   479929.504 3770676.731 363.00
   LOCATION L0007463     VOLUME   479929.454 3770683.979 363.00
   LOCATION L0007464     VOLUME   479929.403 3770691.226 363.00
   LOCATION L0007465     VOLUME   479929.353 3770698.474 363.00
   LOCATION L0007466     VOLUME   479929.302 3770705.722 363.00
   LOCATION L0007467     VOLUME   479929.252 3770712.970 363.00
   LOCATION L0007468     VOLUME   479929.201 3770720.218 363.00
   LOCATION L0007469     VOLUME   479929.151 3770727.465 363.00
   LOCATION L0007470     VOLUME   479929.100 3770734.713 363.00
   LOCATION L0007471     VOLUME   479929.050 3770741.961 363.00
   LOCATION L0007472     VOLUME   479928.999 3770749.209 363.00
   LOCATION L0007473     VOLUME   479928.949 3770756.457 363.00
   LOCATION L0007474     VOLUME   479928.898 3770763.704 363.00
** End of LINE VOLUME Source ID = SLINE4
** ----------------------------------------------------------------------
** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Off site E on SBdo
** PREFIX
** Length of Side = 3.66
** Configuration = Separated
** Emission Rate = 0.0000145
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 479928.570, 3770778.675, 362.96, 0.00, 3.38
** 480732.337, 3770785.029, 373.95, 0.00, 3.38
** ----------------------------------------------------------------------
   LOCATION L0007475     VOLUME   479930.399 3770778.690 363.00
   LOCATION L0007476     VOLUME   479937.673 3770778.747 363.00
   LOCATION L0007477     VOLUME   479944.947 3770778.805 363.00
   LOCATION L0007478     VOLUME   479952.220 3770778.862 363.08
   LOCATION L0007479     VOLUME   479959.494 3770778.920 363.32
   LOCATION L0007480     VOLUME   479966.768 3770778.977 363.56
   LOCATION L0007481     VOLUME   479974.042 3770779.035 363.81
   LOCATION L0007482     VOLUME   479981.315 3770779.092 364.00
   LOCATION L0007483     VOLUME   479988.589 3770779.150 364.00
   LOCATION L0007484     VOLUME   479995.863 3770779.207 364.00
```

```
LOCATION L0007485     VOLUME   480003.136 3770779.265 364.00
LOCATION L0007486     VOLUME   480010.410 3770779.322 364.02
LOCATION L0007487     VOLUME   480017.684 3770779.380 364.23
LOCATION L0007488     VOLUME   480024.958 3770779.437 364.45
LOCATION L0007489     VOLUME   480032.231 3770779.495 364.67
LOCATION L0007490     VOLUME   480039.505 3770779.552 364.88
LOCATION L0007491     VOLUME   480046.779 3770779.610 364.92
LOCATION L0007492     VOLUME   480054.052 3770779.667 364.94
LOCATION L0007493     VOLUME   480061.326 3770779.725 364.97
LOCATION L0007494     VOLUME   480068.600 3770779.782 365.00
LOCATION L0007495     VOLUME   480075.874 3770779.840 365.18
LOCATION L0007496     VOLUME   480083.147 3770779.897 365.39
LOCATION L0007497     VOLUME   480090.421 3770779.955 365.60
LOCATION L0007498     VOLUME   480097.695 3770780.012 365.81
LOCATION L0007499     VOLUME   480104.968 3770780.070 365.90
LOCATION L0007500     VOLUME   480112.242 3770780.127 365.92
LOCATION L0007501     VOLUME   480119.516 3770780.185 365.96
LOCATION L0007502     VOLUME   480126.790 3770780.242 365.99
LOCATION L0007503     VOLUME   480134.063 3770780.300 366.00
LOCATION L0007504     VOLUME   480141.337 3770780.357 366.00
LOCATION L0007505     VOLUME   480148.611 3770780.415 366.00
LOCATION L0007506     VOLUME   480155.884 3770780.472 366.00
LOCATION L0007507     VOLUME   480163.158 3770780.530 366.11
LOCATION L0007508     VOLUME   480170.432 3770780.587 366.35
LOCATION L0007509     VOLUME   480177.706 3770780.645 366.59
LOCATION L0007510     VOLUME   480184.979 3770780.702 366.84
LOCATION L0007511     VOLUME   480192.253 3770780.760 367.00
LOCATION L0007512     VOLUME   480199.527 3770780.817 367.00
LOCATION L0007513     VOLUME   480206.800 3770780.875 367.00
LOCATION L0007514     VOLUME   480214.074 3770780.932 367.00
LOCATION L0007515     VOLUME   480221.348 3770780.990 367.00
LOCATION L0007516     VOLUME   480228.622 3770781.047 367.00
LOCATION L0007517     VOLUME   480235.895 3770781.105 367.00
LOCATION L0007518     VOLUME   480243.169 3770781.162 367.00
LOCATION L0007519     VOLUME   480250.443 3770781.220 367.02
LOCATION L0007520     VOLUME   480257.717 3770781.277 367.26
LOCATION L0007521     VOLUME   480264.990 3770781.335 367.50
LOCATION L0007522     VOLUME   480272.264 3770781.392 367.75
LOCATION L0007523     VOLUME   480279.538 3770781.450 367.99
LOCATION L0007524     VOLUME   480286.811 3770781.507 368.00
LOCATION L0007525     VOLUME   480294.085 3770781.565 368.00
LOCATION L0007526     VOLUME   480301.359 3770781.622 368.00
LOCATION L0007527     VOLUME   480308.633 3770781.680 368.00
LOCATION L0007528     VOLUME   480315.906 3770781.737 368.00
LOCATION L0007529     VOLUME   480323.180 3770781.795 368.00
LOCATION L0007530     VOLUME   480330.454 3770781.852 368.00
LOCATION L0007531     VOLUME   480337.727 3770781.910 368.00
LOCATION L0007532     VOLUME   480345.001 3770781.967 368.17
LOCATION L0007533     VOLUME   480352.275 3770782.025 368.41
LOCATION L0007534     VOLUME   480359.549 3770782.082 368.66
LOCATION L0007535     VOLUME   480366.822 3770782.140 368.90
```

```
   LOCATION L0007536     VOLUME   480374.096 3770782.197 369.00
   LOCATION L0007537     VOLUME   480381.370 3770782.255 369.00
   LOCATION L0007538     VOLUME   480388.643 3770782.312 369.00
   LOCATION L0007539     VOLUME   480395.917 3770782.370 369.00
   LOCATION L0007540     VOLUME   480403.191 3770782.427 369.11
   LOCATION L0007541     VOLUME   480410.465 3770782.485 369.35
   LOCATION L0007542     VOLUME   480417.738 3770782.542 369.59
   LOCATION L0007543     VOLUME   480425.012 3770782.600 369.84
   LOCATION L0007544     VOLUME   480432.286 3770782.657 370.00
   LOCATION L0007545     VOLUME   480439.559 3770782.715 370.00
   LOCATION L0007546     VOLUME   480446.833 3770782.772 370.00
   LOCATION L0007547     VOLUME   480454.107 3770782.830 370.00
   LOCATION L0007548     VOLUME   480461.381 3770782.887 370.00
   LOCATION L0007549     VOLUME   480468.654 3770782.945 370.00
   LOCATION L0007550     VOLUME   480475.928 3770783.002 370.00
   LOCATION L0007551     VOLUME   480483.202 3770783.060 370.00
   LOCATION L0007552     VOLUME   480490.475 3770783.117 370.02
   LOCATION L0007553     VOLUME   480497.749 3770783.175 370.26
   LOCATION L0007554     VOLUME   480505.023 3770783.232 370.50
   LOCATION L0007555     VOLUME   480512.297 3770783.290 370.75
   LOCATION L0007556     VOLUME   480519.570 3770783.347 370.99
   LOCATION L0007557     VOLUME   480526.844 3770783.405 371.00
   LOCATION L0007558     VOLUME   480534.118 3770783.462 371.00
   LOCATION L0007559     VOLUME   480541.392 3770783.520 371.00
   LOCATION L0007560     VOLUME   480548.665 3770783.577 371.00
   LOCATION L0007561     VOLUME   480555.939 3770783.635 371.20
   LOCATION L0007562     VOLUME   480563.213 3770783.692 371.44
   LOCATION L0007563     VOLUME   480570.486 3770783.750 371.69
   LOCATION L0007564     VOLUME   480577.760 3770783.807 371.93
   LOCATION L0007565     VOLUME   480585.034 3770783.865 372.00
   LOCATION L0007566     VOLUME   480592.308 3770783.922 372.00
   LOCATION L0007567     VOLUME   480599.581 3770783.980 372.00
   LOCATION L0007568     VOLUME   480606.855 3770784.037 372.00
   LOCATION L0007569     VOLUME   480614.129 3770784.095 372.00
   LOCATION L0007570     VOLUME   480621.402 3770784.152 372.00
   LOCATION L0007571     VOLUME   480628.676 3770784.210 372.00
   LOCATION L0007572     VOLUME   480635.950 3770784.267 372.00
   LOCATION L0007573     VOLUME   480643.224 3770784.325 372.11
   LOCATION L0007574     VOLUME   480650.497 3770784.382 372.35
   LOCATION L0007575     VOLUME   480657.771 3770784.440 372.60
   LOCATION L0007576     VOLUME   480665.045 3770784.497 372.84
   LOCATION L0007577     VOLUME   480672.318 3770784.555 373.00
   LOCATION L0007578     VOLUME   480679.592 3770784.612 373.00
   LOCATION L0007579     VOLUME   480686.866 3770784.670 373.00
   LOCATION L0007580     VOLUME   480694.140 3770784.727 373.00
   LOCATION L0007581     VOLUME   480701.413 3770784.785 373.05
   LOCATION L0007582     VOLUME   480708.687 3770784.842 373.29
   LOCATION L0007583     VOLUME   480715.961 3770784.900 373.54
   LOCATION L0007584     VOLUME   480723.234 3770784.957 373.78
   LOCATION L0007585     VOLUME   480730.508 3770785.015 374.00
** End of LINE VOLUME Source ID = SLINE5
```

```
** Source Parameters **
   SRCPARAM STCK1          0.000067     3.658   366.483  51.81600     0.100
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000001     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000002     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000003     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000004     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000005     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000006     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000007     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000008     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000009     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000010     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000011     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000012     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000013     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000014     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000015     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000016     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000017     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000018     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000019     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000020     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000021     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000022     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000023     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000024     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000025     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000026     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000027     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000028     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000029     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000030     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000031     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000032     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000033     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000034     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000035     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000036     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000037     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000038     0.0000001823      0.00      3.38      5.67
   SRCPARAM L0000039     0.0000001823      0.00      3.38      5.67
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0007236     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007237     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007238     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007239     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007240     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007241     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007242     0.0000001777      0.00      3.34      5.67
```

```
   SRCPARAM L0007243     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007244     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007245     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007246     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007247     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007248     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007249     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007250     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007251     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007252     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007253     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007254     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007255     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007256     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007257     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007258     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007259     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007260     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007261     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007262     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007263     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007264     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007265     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007266     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007267     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007268     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007269     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007270     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007271     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007272     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007273     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007274     0.0000001777      0.00      3.34      5.67
   SRCPARAM L0007275     0.0000001777      0.00      3.34      5.67
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0007276     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007277     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007278     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007279     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007280     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007281     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007282     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007283     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007284     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007285     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007286     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007287     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007288     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007289     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007290     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007291     0.0000003401      0.00      3.39      0.85
```

```
SRCPARAM L0007292     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007293     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007294     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007295     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007296     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007297     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007298     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007299     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007300     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007301     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007302     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007303     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007304     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007305     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007306     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007307     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007308     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007309     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007310     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007311     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007312     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007313     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007314     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007315     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007316     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007317     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007318     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007319     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007320     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007321     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007322     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007323     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007324     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007325     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007326     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007327     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007328     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007329     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007330     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007331     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007332     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007333     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007334     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007335     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007336     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007337     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007338     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007339     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007340     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007341     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007342     0.0000003401      0.00      3.39      0.85
```

```
SRCPARAM L0007343     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007344     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007345     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007346     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007347     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007348     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007349     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007350     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007351     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007352     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007353     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007354     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007355     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007356     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007357     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007358     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007359     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007360     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007361     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007362     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007363     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007364     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007365     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007366     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007367     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007368     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007369     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007370     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007371     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007372     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007373     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007374     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007375     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007376     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007377     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007378     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007379     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007380     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007381     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007382     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007383     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007384     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007385     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007386     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007387     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007388     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007389     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007390     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007391     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007392     0.0000003401      0.00      3.39      0.85
SRCPARAM L0007393     0.0000003401      0.00      3.39      0.85
```

```
   SRCPARAM L0007394     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007395     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007396     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007397     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007398     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007399     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007400     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007401     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007402     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007403     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007404     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007405     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007406     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007407     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007408     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007409     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007410     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007411     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007412     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007413     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007414     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007415     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007416     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007417     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007418     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007419     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007420     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007421     0.0000003401      0.00      3.39      0.85
   SRCPARAM L0007422     0.0000003401      0.00      3.39      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0007423     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007424     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007425     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007426     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007427     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007428     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007429     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007430     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007431     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007432     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007433     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007434     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007435     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007436     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007437     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007438     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007439     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007440     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007441     0.000000181       0.00      3.37      0.85
   SRCPARAM L0007442     0.000000181       0.00      3.37      0.85
```

```
   SRCPARAM L0007443     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007444     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007445     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007446     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007447     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007448     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007449     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007450     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007451     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007452     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007453     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007454     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007455     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007456     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007457     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007458     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007459     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007460     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007461     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007462     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007463     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007464     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007465     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007466     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007467     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007468     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007469     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007470     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007471     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007472     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007473     0.000000181      0.00      3.37      0.85
   SRCPARAM L0007474     0.000000181      0.00      3.37      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0007475     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007476     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007477     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007478     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007479     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007480     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007481     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007482     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007483     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007484     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007485     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007486     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007487     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007488     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007489     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007490     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007491     0.0000001306      0.00      3.38      0.85
```

```
SRCPARAM L0007492     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007493     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007494     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007495     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007496     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007497     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007498     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007499     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007500     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007501     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007502     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007503     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007504     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007505     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007506     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007507     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007508     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007509     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007510     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007511     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007512     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007513     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007514     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007515     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007516     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007517     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007518     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007519     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007520     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007521     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007522     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007523     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007524     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007525     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007526     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007527     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007528     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007529     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007530     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007531     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007532     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007533     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007534     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007535     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007536     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007537     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007538     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007539     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007540     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007541     0.0000001306      0.00      3.38      0.85
SRCPARAM L0007542     0.0000001306      0.00      3.38      0.85
```

```
   SRCPARAM L0007543     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007544     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007545     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007546     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007547     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007548     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007549     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007550     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007551     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007552     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007553     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007554     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007555     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007556     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007557     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007558     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007559     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007560     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007561     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007562     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007563     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007564     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007565     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007566     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007567     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007568     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007569     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007570     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007571     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007572     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007573     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007574     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007575     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007576     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007577     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007578     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007579     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007580     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007581     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007582     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007583     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007584     0.0000001306      0.00      3.38      0.85
   SRCPARAM L0007585     0.0000001306      0.00      3.38      0.85
** ------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1           12.19    12.19    12.19    12.19    12.19    12.19
   BUILDHGT STCK1           12.19    12.19    12.19    12.19    12.19    12.19
   BUILDHGT STCK1           12.19    12.19    12.19    12.19    12.19    12.19
   BUILDHGT STCK1           12.19    12.19    12.19    12.19    12.19    12.19
   BUILDHGT STCK1           12.19    12.19    12.19    12.19    12.19    12.19
```

```
   BUILDHGT STCK1           12.19    12.19    12.19    12.19    12.19    12.19

   BUILDWID STCK1          499.94   501.19   487.20   458.41   415.70   360.35
   BUILDWID STCK1          294.05   218.82   140.77   222.72   297.91   364.05
   BUILDWID STCK1          419.12   461.46   489.78   503.21   501.36   484.27
   BUILDWID STCK1          499.94   501.19   487.20   458.41   415.70   360.35
   BUILDWID STCK1          294.05   218.82   140.77   222.72   297.91   364.05
   BUILDWID STCK1          419.12   461.46   489.78   503.21   501.36   484.27

   BUILDLEN STCK1          222.72   297.91   364.05   419.12   461.46   489.78
   BUILDLEN STCK1          503.21   501.36   484.27   499.94   501.19   487.20
   BUILDLEN STCK1          458.41   415.70   360.35   294.05   218.82   140.77
   BUILDLEN STCK1          222.72   297.91   364.05   419.12   461.46   489.78
   BUILDLEN STCK1          503.21   501.36   484.27   499.94   501.19   487.20
   BUILDLEN STCK1          458.41   415.70   360.35   294.05   218.82   140.77

   XBADJ    STCK1          -55.17   -97.09  -136.05  -170.89  -200.52  -224.07
   XBADJ    STCK1         -240.81  -250.23  -252.05  -269.37  -279.27  -280.69
   XBADJ    STCK1         -273.57  -258.15  -234.88  -204.47  -167.85  -129.19
   XBADJ    STCK1         -167.55  -200.82  -227.99  -248.23  -260.93  -265.70
   XBADJ    STCK1         -262.40  -251.13  -232.22  -230.57  -221.91  -206.51
   XBADJ    STCK1         -184.84  -157.55  -125.47   -89.58   -50.97   -11.58

   YBADJ    STCK1           19.40    28.68    37.09    44.37    50.30    54.70
   YBADJ    STCK1           57.44    58.44    58.80    56.19    51.87    45.97
   YBADJ    STCK1           38.67    30.20    20.82    10.80     0.45    -9.91
   YBADJ    STCK1          -19.40   -28.68   -37.09   -44.37   -50.30   -54.70
   YBADJ    STCK1          -57.44   -58.44   -58.80   -56.19   -51.87   -45.97
   YBADJ    STCK1          -38.67   -30.20   -20.82   -10.80    -0.45     9.91

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "5482 Chiming.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "..\..\..\..\Met data\SNBO2.SFC"
   PROFFILE "..\..\..\..\Met data\SNBO2.PFL"
```

```
   SURFDATA 0 2005 474.76 3773.82
   UAIRDATA 3190 2005
   SITEDATA 99999 2005
   PROFBASE 305.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "5482 CHIMING.AD\AN00GALL.PLT" 31
   SUMMFILE "5482 Chiming.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
 SO W320     511  PPARM:Input Parameter May Be Out-of-Range for Parameter           VS
 ME W396     973 MEOPEN:Met data from outdated version of AERMET, version:       11059

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************


 *** AERMOD - VERSION  12345 ***   *** Chiming Inc 5482                                                ***        06/12/14
                                  *** DPM Emissions                                                   ***        22:17:35
                                                                                                                 PAGE   1
 **MODELOPTs:  NonDFAULT CONC                                          ELEV                                  FASTALL


                                        ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.
```

```
  --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F

**Model Uses URBAN Dispersion Algorithm for the SBL for   390 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   2015355.0 ;  Urban Roughness Length =  1.000 m

**Model Allows User-Specified Options:
       1. Stack-tip Downwash.
       2. Model Accounts for ELEVated Terrain Effects.
       3. Use Calms Processing Routine.
       4. Use Missing Data Processing Routine.
       5. No Exponential Decay.
       6. Urban Roughness Length of 1.0 Meter Used.

**Other Options Specified:
       FASTALL  - Use effective sigma-y to optimize meander for
                  POINT and VOLUME sources, and hybrid approach
                  to optimize AREA sources (formerly TOXICS option)

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates ANNUAL Averages Only

**This Run Includes:    390 Source(s);       1 Source Group(s); and       8 Receptor(s)

**The Model Assumes A Pollutant Type of:  DPM

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
        Model Outputs Tables of ANNUAL Averages by Receptor
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   305.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                              ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      4.2 MB of RAM.

**Detailed Error/Message File:   5482 Chiming.err
**File for Summary of Results:   5482 Chiming.sum
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.67000E-04	480272.5	3770436.6	367.8	3.66	366.48	51.82	0.10	YES	YES	NO	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000001	0	0.18230E-06	480011.7	3770388.1	364.0	0.00	3.38	5.67	YES	
L0000002	0	0.18230E-06	480011.5	3770395.4	364.0	0.00	3.38	5.67	YES	
L0000003	0	0.18230E-06	480011.4	3770402.7	364.0	0.00	3.38	5.67	YES	
L0000004	0	0.18230E-06	480011.3	3770409.8	364.0	0.00	3.38	5.67	YES	
L0000005	0	0.18230E-06	480018.6	3770409.8	364.0	0.00	3.38	5.67	YES	
L0000006	0	0.18230E-06	480025.9	3770409.9	364.0	0.00	3.38	5.67	YES	
L0000007	0	0.18230E-06	480033.1	3770409.9	364.0	0.00	3.38	5.67	YES	
L0000008	0	0.18230E-06	480040.4	3770409.9	364.0	0.00	3.38	5.67	YES	
L0000009	0	0.18230E-06	480047.6	3770409.9	364.3	0.00	3.38	5.67	YES	
L0000010	0	0.18230E-06	480054.9	3770410.0	364.5	0.00	3.38	5.67	YES	
L0000011	0	0.18230E-06	480062.2	3770410.0	364.7	0.00	3.38	5.67	YES	
L0000012	0	0.18230E-06	480069.4	3770410.0	365.0	0.00	3.38	5.67	YES	
L0000013	0	0.18230E-06	480076.7	3770410.0	365.0	0.00	3.38	5.67	YES	
L0000014	0	0.18230E-06	480083.9	3770410.1	365.0	0.00	3.38	5.67	YES	
L0000015	0	0.18230E-06	480091.2	3770410.1	365.0	0.00	3.38	5.67	YES	
L0000016	0	0.18230E-06	480098.5	3770410.1	365.0	0.00	3.38	5.67	YES	
L0000017	0	0.18230E-06	480105.7	3770410.1	365.0	0.00	3.38	5.67	YES	
L0000018	0	0.18230E-06	480113.0	3770410.2	365.1	0.00	3.38	5.67	YES	
L0000019	0	0.18230E-06	480120.2	3770410.2	365.1	0.00	3.38	5.67	YES	
L0000020	0	0.18230E-06	480127.5	3770410.2	365.2	0.00	3.38	5.67	YES	
L0000021	0	0.18230E-06	480134.8	3770410.3	365.3	0.00	3.38	5.67	YES	

L0000022	0	0.18230E-06	480142.0	3770410.3	365.5	0.00	3.38	5.67	YES
L0000023	0	0.18230E-06	480149.3	3770410.3	365.7	0.00	3.38	5.67	YES
L0000024	0	0.18230E-06	480156.5	3770410.3	365.9	0.00	3.38	5.67	YES
L0000025	0	0.18230E-06	480163.8	3770410.4	366.0	0.00	3.38	5.67	YES
L0000026	0	0.18230E-06	480171.1	3770410.4	366.0	0.00	3.38	5.67	YES
L0000027	0	0.18230E-06	480178.3	3770410.4	366.0	0.00	3.38	5.67	YES
L0000028	0	0.18230E-06	480185.6	3770410.4	366.0	0.00	3.38	5.67	YES
L0000029	0	0.18230E-06	480192.8	3770410.5	366.1	0.00	3.38	5.67	YES
L0000030	0	0.18230E-06	480200.1	3770410.5	366.3	0.00	3.38	5.67	YES
L0000031	0	0.18230E-06	480207.4	3770410.5	366.6	0.00	3.38	5.67	YES
L0000032	0	0.18230E-06	480214.6	3770410.5	366.8	0.00	3.38	5.67	YES
L0000033	0	0.18230E-06	480221.9	3770410.6	367.0	0.00	3.38	5.67	YES
L0000034	0	0.18230E-06	480229.1	3770410.6	367.0	0.00	3.38	5.67	YES
L0000035	0	0.18230E-06	480236.4	3770410.6	367.0	0.00	3.38	5.67	YES
L0000036	0	0.18230E-06	480243.7	3770410.7	367.0	0.00	3.38	5.67	YES
L0000037	0	0.18230E-06	480250.9	3770410.7	367.0	0.00	3.38	5.67	YES
L0000038	0	0.18230E-06	480258.2	3770410.7	367.3	0.00	3.38	5.67	YES
L0000039	0	0.18230E-06	480265.5	3770410.7	367.5	0.00	3.38	5.67	YES
L0007236	0	0.17770E-06	480275.2	3770412.2	367.8	0.00	3.34	5.67	YES

**MODELOPTs: NonDFAULT CONC ELEV FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0007237	0	0.17770E-06	480282.4	3770412.2	368.0	0.00	3.34	5.67	YES	
L0007238	0	0.17770E-06	480289.6	3770412.2	368.0	0.00	3.34	5.67	YES	
L0007239	0	0.17770E-06	480296.7	3770412.2	368.0	0.00	3.34	5.67	YES	
L0007240	0	0.17770E-06	480303.9	3770412.2	368.0	0.00	3.34	5.67	YES	
L0007241	0	0.17770E-06	480311.1	3770412.2	368.0	0.00	3.34	5.67	YES	
L0007242	0	0.17770E-06	480318.3	3770412.2	368.3	0.00	3.34	5.67	YES	
L0007243	0	0.17770E-06	480325.4	3770412.2	368.5	0.00	3.34	5.67	YES	
L0007244	0	0.17770E-06	480332.6	3770412.3	368.8	0.00	3.34	5.67	YES	
L0007245	0	0.17770E-06	480339.8	3770412.3	369.0	0.00	3.34	5.67	YES	
L0007246	0	0.17770E-06	480347.0	3770412.3	369.0	0.00	3.34	5.67	YES	
L0007247	0	0.17770E-06	480354.1	3770412.3	369.0	0.00	3.34	5.67	YES	
L0007248	0	0.17770E-06	480361.3	3770412.3	369.0	0.00	3.34	5.67	YES	
L0007249	0	0.17770E-06	480368.5	3770412.3	369.0	0.00	3.34	5.67	YES	
L0007250	0	0.17770E-06	480375.7	3770412.3	369.2	0.00	3.34	5.67	YES	
L0007251	0	0.17770E-06	480382.8	3770412.3	369.4	0.00	3.34	5.67	YES	
L0007252	0	0.17770E-06	480390.0	3770412.4	369.7	0.00	3.34	5.67	YES	
L0007253	0	0.17770E-06	480397.2	3770412.4	369.9	0.00	3.34	5.67	YES	

L0007254	0	0.17770E-06	480404.4	3770412.4	370.0	0.00	3.34	5.67	YES
L0007255	0	0.17770E-06	480411.5	3770412.4	370.0	0.00	3.34	5.67	YES
L0007256	0	0.17770E-06	480418.7	3770412.4	370.0	0.00	3.34	5.67	YES
L0007257	0	0.17770E-06	480425.9	3770412.4	370.0	0.00	3.34	5.67	YES
L0007258	0	0.17770E-06	480433.1	3770412.4	370.0	0.00	3.34	5.67	YES
L0007259	0	0.17770E-06	480440.2	3770412.5	370.0	0.00	3.34	5.67	YES
L0007260	0	0.17770E-06	480447.4	3770412.5	370.0	0.00	3.34	5.67	YES
L0007261	0	0.17770E-06	480454.6	3770412.5	370.0	0.00	3.34	5.67	YES
L0007262	0	0.17770E-06	480461.8	3770412.5	370.1	0.00	3.34	5.67	YES
L0007263	0	0.17770E-06	480468.9	3770412.5	370.3	0.00	3.34	5.67	YES
L0007264	0	0.17770E-06	480476.1	3770412.5	370.5	0.00	3.34	5.67	YES
L0007265	0	0.17770E-06	480483.3	3770412.5	370.8	0.00	3.34	5.67	YES
L0007266	0	0.17770E-06	480490.5	3770412.5	371.0	0.00	3.34	5.67	YES
L0007267	0	0.17770E-06	480497.6	3770412.6	371.0	0.00	3.34	5.67	YES
L0007268	0	0.17770E-06	480504.8	3770412.6	371.0	0.00	3.34	5.67	YES
L0007269	0	0.17770E-06	480512.0	3770412.6	371.0	0.00	3.34	5.67	YES
L0007270	0	0.17770E-06	480519.2	3770412.6	371.0	0.00	3.34	5.67	YES
L0007271	0	0.17770E-06	480526.3	3770412.6	371.2	0.00	3.34	5.67	YES
L0007272	0	0.17770E-06	480533.2	3770412.3	371.4	0.00	3.34	5.67	YES
L0007273	0	0.17770E-06	480534.1	3770405.2	371.5	0.00	3.34	5.67	YES
L0007274	0	0.17770E-06	480535.0	3770398.1	371.5	0.00	3.34	5.67	YES
L0007275	0	0.17770E-06	480535.8	3770390.9	371.5	0.00	3.34	5.67	YES
L0007276	0	0.34010E-06	480521.7	3770381.7	371.2	0.00	3.39	0.85	YES

**MODELOPTs: NonDFAULT CONC ELEV FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0007277	0	0.34010E-06	480514.4	3770381.7	371.1	0.00	3.39	0.85	YES	
L0007278	0	0.34010E-06	480507.1	3770381.6	371.1	0.00	3.39	0.85	YES	
L0007279	0	0.34010E-06	480499.9	3770381.6	371.1	0.00	3.39	0.85	YES	
L0007280	0	0.34010E-06	480492.6	3770381.5	371.0	0.00	3.39	0.85	YES	
L0007281	0	0.34010E-06	480485.3	3770381.5	370.9	0.00	3.39	0.85	YES	
L0007282	0	0.34010E-06	480478.0	3770381.4	370.7	0.00	3.39	0.85	YES	
L0007283	0	0.34010E-06	480470.7	3770381.4	370.5	0.00	3.39	0.85	YES	
L0007284	0	0.34010E-06	480463.4	3770381.3	370.3	0.00	3.39	0.85	YES	
L0007285	0	0.34010E-06	480456.1	3770381.3	370.2	0.00	3.39	0.85	YES	
L0007286	0	0.34010E-06	480448.8	3770381.2	370.1	0.00	3.39	0.85	YES	
L0007287	0	0.34010E-06	480441.6	3770381.2	370.1	0.00	3.39	0.85	YES	
L0007288	0	0.34010E-06	480434.3	3770381.1	370.0	0.00	3.39	0.85	YES	
L0007289	0	0.34010E-06	480427.0	3770381.1	370.0	0.00	3.39	0.85	YES	

L0007290	0	0.34010E-06	480419.7	3770381.0	370.0	0.00	3.39	0.85	YES	
L0007291	0	0.34010E-06	480412.4	3770381.0	370.0	0.00	3.39	0.85	YES	
L0007292	0	0.34010E-06	480405.1	3770380.9	370.0	0.00	3.39	0.85	YES	
L0007293	0	0.34010E-06	480397.8	3770380.9	369.9	0.00	3.39	0.85	YES	
L0007294	0	0.34010E-06	480390.5	3770380.8	369.7	0.00	3.39	0.85	YES	
L0007295	0	0.34010E-06	480383.3	3770380.8	369.4	0.00	3.39	0.85	YES	
L0007296	0	0.34010E-06	480376.0	3770380.7	369.2	0.00	3.39	0.85	YES	
L0007297	0	0.34010E-06	480368.7	3770380.7	369.0	0.00	3.39	0.85	YES	
L0007298	0	0.34010E-06	480361.4	3770380.6	369.0	0.00	3.39	0.85	YES	
L0007299	0	0.34010E-06	480354.1	3770380.6	369.0	0.00	3.39	0.85	YES	
L0007300	0	0.34010E-06	480346.8	3770380.5	369.0	0.00	3.39	0.85	YES	
L0007301	0	0.34010E-06	480339.5	3770380.4	369.0	0.00	3.39	0.85	YES	
L0007302	0	0.34010E-06	480332.2	3770380.4	368.7	0.00	3.39	0.85	YES	
L0007303	0	0.34010E-06	480325.0	3770380.3	368.5	0.00	3.39	0.85	YES	
L0007304	0	0.34010E-06	480317.7	3770380.3	368.3	0.00	3.39	0.85	YES	
L0007305	0	0.34010E-06	480310.4	3770380.2	368.0	0.00	3.39	0.85	YES	
L0007306	0	0.34010E-06	480303.1	3770380.2	368.0	0.00	3.39	0.85	YES	
L0007307	0	0.34010E-06	480295.8	3770380.1	368.0	0.00	3.39	0.85	YES	
L0007308	0	0.34010E-06	480288.5	3770380.1	368.0	0.00	3.39	0.85	YES	
L0007309	0	0.34010E-06	480281.2	3770380.0	368.0	0.00	3.39	0.85	YES	
L0007310	0	0.34010E-06	480273.9	3770380.0	367.8	0.00	3.39	0.85	YES	
L0007311	0	0.34010E-06	480266.7	3770379.9	367.6	0.00	3.39	0.85	YES	
L0007312	0	0.34010E-06	480259.4	3770379.9	367.3	0.00	3.39	0.85	YES	
L0007313	0	0.34010E-06	480252.1	3770379.8	367.1	0.00	3.39	0.85	YES	
L0007314	0	0.34010E-06	480244.8	3770379.8	367.0	0.00	3.39	0.85	YES	
L0007315	0	0.34010E-06	480237.5	3770379.7	367.0	0.00	3.39	0.85	YES	
L0007316	0	0.34010E-06	480230.2	3770379.7	367.0	0.00	3.39	0.85	YES	

**MODELOPTs: NonDFAULT CONC ELEV FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0007317	0	0.34010E-06	480222.9	3770379.6	367.0	0.00	3.39	0.85	YES	
L0007318	0	0.34010E-06	480215.6	3770379.6	366.9	0.00	3.39	0.85	YES	
L0007319	0	0.34010E-06	480208.3	3770379.5	366.6	0.00	3.39	0.85	YES	
L0007320	0	0.34010E-06	480201.1	3770379.5	366.4	0.00	3.39	0.85	YES	
L0007321	0	0.34010E-06	480193.8	3770379.4	366.1	0.00	3.39	0.85	YES	
L0007322	0	0.34010E-06	480186.5	3770379.4	366.0	0.00	3.39	0.85	YES	
L0007323	0	0.34010E-06	480179.2	3770379.3	366.0	0.00	3.39	0.85	YES	
L0007324	0	0.34010E-06	480171.9	3770379.3	366.0	0.00	3.39	0.85	YES	
L0007325	0	0.34010E-06	480164.6	3770379.2	366.0	0.00	3.39	0.85	YES	

L0007326	0	0.34010E-06	480157.3	3770379.2	366.0	0.00	3.39	0.85	YES	
L0007327	0	0.34010E-06	480150.0	3770379.1	366.0	0.00	3.39	0.85	YES	
L0007328	0	0.34010E-06	480142.8	3770379.1	366.0	0.00	3.39	0.85	YES	
L0007329	0	0.34010E-06	480135.5	3770379.0	366.0	0.00	3.39	0.85	YES	
L0007330	0	0.34010E-06	480128.2	3770379.0	365.9	0.00	3.39	0.85	YES	
L0007331	0	0.34010E-06	480120.9	3770378.9	365.7	0.00	3.39	0.85	YES	
L0007332	0	0.34010E-06	480113.6	3770378.9	365.5	0.00	3.39	0.85	YES	
L0007333	0	0.34010E-06	480106.3	3770378.8	365.2	0.00	3.39	0.85	YES	
L0007334	0	0.34010E-06	480099.0	3770378.8	365.0	0.00	3.39	0.85	YES	
L0007335	0	0.34010E-06	480091.7	3770378.7	365.0	0.00	3.39	0.85	YES	
L0007336	0	0.34010E-06	480084.5	3770378.7	365.0	0.00	3.39	0.85	YES	
L0007337	0	0.34010E-06	480077.2	3770378.6	365.0	0.00	3.39	0.85	YES	
L0007338	0	0.34010E-06	480069.9	3770378.6	365.0	0.00	3.39	0.85	YES	
L0007339	0	0.34010E-06	480062.6	3770378.5	364.8	0.00	3.39	0.85	YES	
L0007340	0	0.34010E-06	480055.3	3770378.5	364.5	0.00	3.39	0.85	YES	
L0007341	0	0.34010E-06	480048.0	3770378.4	364.3	0.00	3.39	0.85	YES	
L0007342	0	0.34010E-06	480040.7	3770378.4	364.0	0.00	3.39	0.85	YES	
L0007343	0	0.34010E-06	480033.4	3770378.3	364.0	0.00	3.39	0.85	YES	
L0007344	0	0.34010E-06	480026.2	3770378.3	364.0	0.00	3.39	0.85	YES	
L0007345	0	0.34010E-06	480018.9	3770378.2	364.0	0.00	3.39	0.85	YES	
L0007346	0	0.34010E-06	480011.6	3770378.2	364.0	0.00	3.39	0.85	YES	
L0007347	0	0.34010E-06	480004.3	3770378.1	364.0	0.00	3.39	0.85	YES	
L0007348	0	0.34010E-06	479997.0	3770378.1	364.0	0.00	3.39	0.85	YES	
L0007349	0	0.34010E-06	479989.7	3770378.0	364.0	0.00	3.39	0.85	YES	
L0007350	0	0.34010E-06	479982.4	3770377.9	364.0	0.00	3.39	0.85	YES	
L0007351	0	0.34010E-06	479975.1	3770377.9	363.8	0.00	3.39	0.85	YES	
L0007352	0	0.34010E-06	479967.9	3770377.8	363.6	0.00	3.39	0.85	YES	
L0007353	0	0.34010E-06	479960.6	3770377.8	363.4	0.00	3.39	0.85	YES	
L0007354	0	0.34010E-06	479953.3	3770377.7	363.1	0.00	3.39	0.85	YES	
L0007355	0	0.34010E-06	479946.0	3770377.7	363.0	0.00	3.39	0.85	YES	
L0007356	0	0.34010E-06	479938.7	3770377.6	363.0	0.00	3.39	0.85	YES	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0007357	0	0.34010E-06	479931.4	3770377.6	363.0	0.00	3.39	0.85	YES	
L0007358	0	0.34010E-06	479924.1	3770377.5	363.0	0.00	3.39	0.85	YES	
L0007359	0	0.34010E-06	479916.8	3770377.5	362.9	0.00	3.39	0.85	YES	
L0007360	0	0.34010E-06	479909.6	3770377.4	362.8	0.00	3.39	0.85	YES	
L0007361	0	0.34010E-06	479902.3	3770377.4	362.6	0.00	3.39	0.85	YES	

L0007362	0	0.34010E-06	479895.0	3770377.3	362.4	0.00	3.39	0.85	YES	
L0007363	0	0.34010E-06	479887.7	3770377.3	362.3	0.00	3.39	0.85	YES	
L0007364	0	0.34010E-06	479880.4	3770377.2	362.2	0.00	3.39	0.85	YES	
L0007365	0	0.34010E-06	479873.1	3770377.2	362.1	0.00	3.39	0.85	YES	
L0007366	0	0.34010E-06	479865.8	3770377.1	362.1	0.00	3.39	0.85	YES	
L0007367	0	0.34010E-06	479858.5	3770377.1	362.0	0.00	3.39	0.85	YES	
L0007368	0	0.34010E-06	479851.3	3770377.0	362.0	0.00	3.39	0.85	YES	
L0007369	0	0.34010E-06	479844.0	3770377.0	362.0	0.00	3.39	0.85	YES	
L0007370	0	0.34010E-06	479836.7	3770376.9	362.0	0.00	3.39	0.85	YES	
L0007371	0	0.34010E-06	479829.4	3770376.9	362.0	0.00	3.39	0.85	YES	
L0007372	0	0.34010E-06	479822.1	3770376.8	361.7	0.00	3.39	0.85	YES	
L0007373	0	0.34010E-06	479814.8	3770376.8	361.5	0.00	3.39	0.85	YES	
L0007374	0	0.34010E-06	479807.5	3770376.7	361.2	0.00	3.39	0.85	YES	
L0007375	0	0.34010E-06	479800.2	3770376.7	361.0	0.00	3.39	0.85	YES	
L0007376	0	0.34010E-06	479793.0	3770376.6	361.0	0.00	3.39	0.85	YES	
L0007377	0	0.34010E-06	479785.7	3770376.6	361.0	0.00	3.39	0.85	YES	
L0007378	0	0.34010E-06	479778.4	3770376.5	361.0	0.00	3.39	0.85	YES	
L0007379	0	0.34010E-06	479771.1	3770376.5	361.0	0.00	3.39	0.85	YES	
L0007380	0	0.34010E-06	479763.8	3770376.4	360.8	0.00	3.39	0.85	YES	
L0007381	0	0.34010E-06	479756.5	3770376.4	360.6	0.00	3.39	0.85	YES	
L0007382	0	0.34010E-06	479749.2	3770376.3	360.3	0.00	3.39	0.85	YES	
L0007383	0	0.34010E-06	479741.9	3770376.3	360.1	0.00	3.39	0.85	YES	
L0007384	0	0.34010E-06	479734.7	3770376.2	360.0	0.00	3.39	0.85	YES	
L0007385	0	0.34010E-06	479727.4	3770376.2	360.0	0.00	3.39	0.85	YES	
L0007386	0	0.34010E-06	479720.1	3770376.1	360.0	0.00	3.39	0.85	YES	
L0007387	0	0.34010E-06	479712.8	3770376.1	360.0	0.00	3.39	0.85	YES	
L0007388	0	0.34010E-06	479705.5	3770376.0	360.0	0.00	3.39	0.85	YES	
L0007389	0	0.34010E-06	479698.2	3770376.0	360.0	0.00	3.39	0.85	YES	
L0007390	0	0.34010E-06	479690.9	3770375.9	360.0	0.00	3.39	0.85	YES	
L0007391	0	0.34010E-06	479683.6	3770375.9	360.0	0.00	3.39	0.85	YES	
L0007392	0	0.34010E-06	479676.4	3770375.8	359.9	0.00	3.39	0.85	YES	
L0007393	0	0.34010E-06	479669.1	3770375.8	359.6	0.00	3.39	0.85	YES	
L0007394	0	0.34010E-06	479661.8	3770375.7	359.4	0.00	3.39	0.85	YES	
L0007395	0	0.34010E-06	479654.5	3770375.7	359.2	0.00	3.39	0.85	YES	
L0007396	0	0.34010E-06	479647.2	3770375.6	359.0	0.00	3.39	0.85	YES	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0007397	0	0.34010E-06	479639.9	3770375.6	359.0	0.00	3.39	0.85	YES	

L0007398	0	0.34010E-06	479632.6	3770375.5	359.0	0.00	3.39	0.85	YES	
L0007399	0	0.34010E-06	479625.3	3770375.4	359.0	0.00	3.39	0.85	YES	
L0007400	0	0.34010E-06	479618.1	3770375.4	359.0	0.00	3.39	0.85	YES	
L0007401	0	0.34010E-06	479610.8	3770375.3	359.0	0.00	3.39	0.85	YES	
L0007402	0	0.34010E-06	479603.5	3770375.3	359.0	0.00	3.39	0.85	YES	
L0007403	0	0.34010E-06	479596.2	3770375.2	359.0	0.00	3.39	0.85	YES	
L0007404	0	0.34010E-06	479588.9	3770375.2	359.0	0.00	3.39	0.85	YES	
L0007405	0	0.34010E-06	479581.6	3770375.1	358.7	0.00	3.39	0.85	YES	
L0007406	0	0.34010E-06	479574.3	3770375.1	358.5	0.00	3.39	0.85	YES	
L0007407	0	0.34010E-06	479567.0	3770375.0	358.2	0.00	3.39	0.85	YES	
L0007408	0	0.34010E-06	479559.8	3770375.0	358.0	0.00	3.39	0.85	YES	
L0007409	0	0.34010E-06	479552.5	3770374.9	358.0	0.00	3.39	0.85	YES	
L0007410	0	0.34010E-06	479545.2	3770374.9	358.0	0.00	3.39	0.85	YES	
L0007411	0	0.34010E-06	479537.9	3770374.8	358.0	0.00	3.39	0.85	YES	
L0007412	0	0.34010E-06	479530.6	3770374.8	358.0	0.00	3.39	0.85	YES	
L0007413	0	0.34010E-06	479523.3	3770374.7	358.0	0.00	3.39	0.85	YES	
L0007414	0	0.34010E-06	479516.0	3770374.7	358.0	0.00	3.39	0.85	YES	
L0007415	0	0.34010E-06	479508.7	3770374.6	358.0	0.00	3.39	0.85	YES	
L0007416	0	0.34010E-06	479501.4	3770374.6	358.0	0.00	3.39	0.85	YES	
L0007417	0	0.34010E-06	479494.2	3770374.5	357.8	0.00	3.39	0.85	YES	
L0007418	0	0.34010E-06	479486.9	3770374.5	357.6	0.00	3.39	0.85	YES	
L0007419	0	0.34010E-06	479479.6	3770374.4	357.3	0.00	3.39	0.85	YES	
L0007420	0	0.34010E-06	479472.3	3770374.4	357.1	0.00	3.39	0.85	YES	
L0007421	0	0.34010E-06	479465.0	3770374.3	357.0	0.00	3.39	0.85	YES	
L0007422	0	0.34010E-06	479457.7	3770374.3	357.0	0.00	3.39	0.85	YES	
L0007423	0	0.18100E-06	479931.5	3770394.1	363.0	0.00	3.37	0.85	YES	
L0007424	0	0.18100E-06	479931.4	3770401.3	363.0	0.00	3.37	0.85	YES	
L0007425	0	0.18100E-06	479931.4	3770408.6	363.0	0.00	3.37	0.85	YES	
L0007426	0	0.18100E-06	479931.3	3770415.8	363.0	0.00	3.37	0.85	YES	
L0007427	0	0.18100E-06	479931.3	3770423.1	363.0	0.00	3.37	0.85	YES	
L0007428	0	0.18100E-06	479931.2	3770430.3	363.0	0.00	3.37	0.85	YES	
L0007429	0	0.18100E-06	479931.2	3770437.6	363.0	0.00	3.37	0.85	YES	
L0007430	0	0.18100E-06	479931.1	3770444.8	363.0	0.00	3.37	0.85	YES	
L0007431	0	0.18100E-06	479931.1	3770452.0	363.0	0.00	3.37	0.85	YES	
L0007432	0	0.18100E-06	479931.0	3770459.3	363.0	0.00	3.37	0.85	YES	
L0007433	0	0.18100E-06	479931.0	3770466.5	363.0	0.00	3.37	0.85	YES	
L0007434	0	0.18100E-06	479930.9	3770473.8	363.0	0.00	3.37	0.85	YES	
L0007435	0	0.18100E-06	479930.9	3770481.0	363.0	0.00	3.37	0.85	YES	
L0007436	0	0.18100E-06	479930.8	3770488.3	363.0	0.00	3.37	0.85	YES	

**MODELOPTs: NonDFAULT CONC ELEV FASTALL

*** VOLUME SOURCE DATA ***

SOURCE	NUMBER PART.	EMISSION RATE (GRAMS/SEC)	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY

ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY
L0007437	0	0.18100E-06	479930.8	3770495.5	363.0	0.00	3.37	0.85	YES
L0007438	0	0.18100E-06	479930.7	3770502.8	363.0	0.00	3.37	0.85	YES
L0007439	0	0.18100E-06	479930.7	3770510.0	363.0	0.00	3.37	0.85	YES
L0007440	0	0.18100E-06	479930.6	3770517.3	363.0	0.00	3.37	0.85	YES
L0007441	0	0.18100E-06	479930.6	3770524.5	363.0	0.00	3.37	0.85	YES
L0007442	0	0.18100E-06	479930.5	3770531.8	363.0	0.00	3.37	0.85	YES
L0007443	0	0.18100E-06	479930.5	3770539.0	363.0	0.00	3.37	0.85	YES
L0007444	0	0.18100E-06	479930.4	3770546.3	363.0	0.00	3.37	0.85	YES
L0007445	0	0.18100E-06	479930.4	3770553.5	363.0	0.00	3.37	0.85	YES
L0007446	0	0.18100E-06	479930.3	3770560.8	363.0	0.00	3.37	0.85	YES
L0007447	0	0.18100E-06	479930.3	3770568.0	363.0	0.00	3.37	0.85	YES
L0007448	0	0.18100E-06	479930.2	3770575.3	363.0	0.00	3.37	0.85	YES
L0007449	0	0.18100E-06	479930.2	3770582.5	363.0	0.00	3.37	0.85	YES
L0007450	0	0.18100E-06	479930.1	3770589.8	363.0	0.00	3.37	0.85	YES
L0007451	0	0.18100E-06	479930.1	3770597.0	363.0	0.00	3.37	0.85	YES
L0007452	0	0.18100E-06	479930.0	3770604.3	363.0	0.00	3.37	0.85	YES
L0007453	0	0.18100E-06	479930.0	3770611.5	363.0	0.00	3.37	0.85	YES
L0007454	0	0.18100E-06	479929.9	3770618.7	363.0	0.00	3.37	0.85	YES
L0007455	0	0.18100E-06	479929.9	3770626.0	363.0	0.00	3.37	0.85	YES
L0007456	0	0.18100E-06	479929.8	3770633.2	363.0	0.00	3.37	0.85	YES
L0007457	0	0.18100E-06	479929.8	3770640.5	363.0	0.00	3.37	0.85	YES
L0007458	0	0.18100E-06	479929.7	3770647.7	363.0	0.00	3.37	0.85	YES
L0007459	0	0.18100E-06	479929.7	3770655.0	363.0	0.00	3.37	0.85	YES
L0007460	0	0.18100E-06	479929.6	3770662.2	363.0	0.00	3.37	0.85	YES
L0007461	0	0.18100E-06	479929.6	3770669.5	363.0	0.00	3.37	0.85	YES
L0007462	0	0.18100E-06	479929.5	3770676.7	363.0	0.00	3.37	0.85	YES
L0007463	0	0.18100E-06	479929.5	3770684.0	363.0	0.00	3.37	0.85	YES
L0007464	0	0.18100E-06	479929.4	3770691.2	363.0	0.00	3.37	0.85	YES
L0007465	0	0.18100E-06	479929.4	3770698.5	363.0	0.00	3.37	0.85	YES
L0007466	0	0.18100E-06	479929.3	3770705.7	363.0	0.00	3.37	0.85	YES
L0007467	0	0.18100E-06	479929.3	3770713.0	363.0	0.00	3.37	0.85	YES
L0007468	0	0.18100E-06	479929.2	3770720.2	363.0	0.00	3.37	0.85	YES
L0007469	0	0.18100E-06	479929.2	3770727.5	363.0	0.00	3.37	0.85	YES
L0007470	0	0.18100E-06	479929.1	3770734.7	363.0	0.00	3.37	0.85	YES
L0007471	0	0.18100E-06	479929.0	3770742.0	363.0	0.00	3.37	0.85	YES
L0007472	0	0.18100E-06	479929.0	3770749.2	363.0	0.00	3.37	0.85	YES
L0007473	0	0.18100E-06	479928.9	3770756.5	363.0	0.00	3.37	0.85	YES
L0007474	0	0.18100E-06	479928.9	3770763.7	363.0	0.00	3.37	0.85	YES
L0007475	0	0.13060E-06	479930.4	3770778.7	363.0	0.00	3.38	0.85	YES
L0007476	0	0.13060E-06	479937.7	3770778.7	363.0	0.00	3.38	0.85	YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0007477	0	0.13060E-06	479944.9	3770778.8	363.0	0.00	3.38	0.85	YES	
L0007478	0	0.13060E-06	479952.2	3770778.9	363.1	0.00	3.38	0.85	YES	
L0007479	0	0.13060E-06	479959.5	3770778.9	363.3	0.00	3.38	0.85	YES	
L0007480	0	0.13060E-06	479966.8	3770779.0	363.6	0.00	3.38	0.85	YES	
L0007481	0	0.13060E-06	479974.0	3770779.0	363.8	0.00	3.38	0.85	YES	
L0007482	0	0.13060E-06	479981.3	3770779.1	364.0	0.00	3.38	0.85	YES	
L0007483	0	0.13060E-06	479988.6	3770779.1	364.0	0.00	3.38	0.85	YES	
L0007484	0	0.13060E-06	479995.9	3770779.2	364.0	0.00	3.38	0.85	YES	
L0007485	0	0.13060E-06	480003.1	3770779.3	364.0	0.00	3.38	0.85	YES	
L0007486	0	0.13060E-06	480010.4	3770779.3	364.0	0.00	3.38	0.85	YES	
L0007487	0	0.13060E-06	480017.7	3770779.4	364.2	0.00	3.38	0.85	YES	
L0007488	0	0.13060E-06	480025.0	3770779.4	364.4	0.00	3.38	0.85	YES	
L0007489	0	0.13060E-06	480032.2	3770779.5	364.7	0.00	3.38	0.85	YES	
L0007490	0	0.13060E-06	480039.5	3770779.6	364.9	0.00	3.38	0.85	YES	
L0007491	0	0.13060E-06	480046.8	3770779.6	364.9	0.00	3.38	0.85	YES	
L0007492	0	0.13060E-06	480054.1	3770779.7	364.9	0.00	3.38	0.85	YES	
L0007493	0	0.13060E-06	480061.3	3770779.7	365.0	0.00	3.38	0.85	YES	
L0007494	0	0.13060E-06	480068.6	3770779.8	365.0	0.00	3.38	0.85	YES	
L0007495	0	0.13060E-06	480075.9	3770779.8	365.2	0.00	3.38	0.85	YES	
L0007496	0	0.13060E-06	480083.1	3770779.9	365.4	0.00	3.38	0.85	YES	
L0007497	0	0.13060E-06	480090.4	3770780.0	365.6	0.00	3.38	0.85	YES	
L0007498	0	0.13060E-06	480097.7	3770780.0	365.8	0.00	3.38	0.85	YES	
L0007499	0	0.13060E-06	480105.0	3770780.1	365.9	0.00	3.38	0.85	YES	
L0007500	0	0.13060E-06	480112.2	3770780.1	365.9	0.00	3.38	0.85	YES	
L0007501	0	0.13060E-06	480119.5	3770780.2	366.0	0.00	3.38	0.85	YES	
L0007502	0	0.13060E-06	480126.8	3770780.2	366.0	0.00	3.38	0.85	YES	
L0007503	0	0.13060E-06	480134.1	3770780.3	366.0	0.00	3.38	0.85	YES	
L0007504	0	0.13060E-06	480141.3	3770780.4	366.0	0.00	3.38	0.85	YES	
L0007505	0	0.13060E-06	480148.6	3770780.4	366.0	0.00	3.38	0.85	YES	
L0007506	0	0.13060E-06	480155.9	3770780.5	366.0	0.00	3.38	0.85	YES	
L0007507	0	0.13060E-06	480163.2	3770780.5	366.1	0.00	3.38	0.85	YES	
L0007508	0	0.13060E-06	480170.4	3770780.6	366.4	0.00	3.38	0.85	YES	
L0007509	0	0.13060E-06	480177.7	3770780.6	366.6	0.00	3.38	0.85	YES	
L0007510	0	0.13060E-06	480185.0	3770780.7	366.8	0.00	3.38	0.85	YES	
L0007511	0	0.13060E-06	480192.3	3770780.8	367.0	0.00	3.38	0.85	YES	
L0007512	0	0.13060E-06	480199.5	3770780.8	367.0	0.00	3.38	0.85	YES	
L0007513	0	0.13060E-06	480206.8	3770780.9	367.0	0.00	3.38	0.85	YES	
L0007514	0	0.13060E-06	480214.1	3770780.9	367.0	0.00	3.38	0.85	YES	
L0007515	0	0.13060E-06	480221.3	3770781.0	367.0	0.00	3.38	0.85	YES	
L0007516	0	0.13060E-06	480228.6	3770781.0	367.0	0.00	3.38	0.85	YES	

**MODELOPTs: NonDFAULT CONC ELEV FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0007517	0	0.13060E-06	480235.9	3770781.1	367.0	0.00	3.38	0.85	YES	
L0007518	0	0.13060E-06	480243.2	3770781.2	367.0	0.00	3.38	0.85	YES	
L0007519	0	0.13060E-06	480250.4	3770781.2	367.0	0.00	3.38	0.85	YES	
L0007520	0	0.13060E-06	480257.7	3770781.3	367.3	0.00	3.38	0.85	YES	
L0007521	0	0.13060E-06	480265.0	3770781.3	367.5	0.00	3.38	0.85	YES	
L0007522	0	0.13060E-06	480272.3	3770781.4	367.8	0.00	3.38	0.85	YES	
L0007523	0	0.13060E-06	480279.5	3770781.4	368.0	0.00	3.38	0.85	YES	
L0007524	0	0.13060E-06	480286.8	3770781.5	368.0	0.00	3.38	0.85	YES	
L0007525	0	0.13060E-06	480294.1	3770781.6	368.0	0.00	3.38	0.85	YES	
L0007526	0	0.13060E-06	480301.4	3770781.6	368.0	0.00	3.38	0.85	YES	
L0007527	0	0.13060E-06	480308.6	3770781.7	368.0	0.00	3.38	0.85	YES	
L0007528	0	0.13060E-06	480315.9	3770781.7	368.0	0.00	3.38	0.85	YES	
L0007529	0	0.13060E-06	480323.2	3770781.8	368.0	0.00	3.38	0.85	YES	
L0007530	0	0.13060E-06	480330.5	3770781.9	368.0	0.00	3.38	0.85	YES	
L0007531	0	0.13060E-06	480337.7	3770781.9	368.0	0.00	3.38	0.85	YES	
L0007532	0	0.13060E-06	480345.0	3770782.0	368.2	0.00	3.38	0.85	YES	
L0007533	0	0.13060E-06	480352.3	3770782.0	368.4	0.00	3.38	0.85	YES	
L0007534	0	0.13060E-06	480359.5	3770782.1	368.7	0.00	3.38	0.85	YES	
L0007535	0	0.13060E-06	480366.8	3770782.1	368.9	0.00	3.38	0.85	YES	
L0007536	0	0.13060E-06	480374.1	3770782.2	369.0	0.00	3.38	0.85	YES	
L0007537	0	0.13060E-06	480381.4	3770782.3	369.0	0.00	3.38	0.85	YES	
L0007538	0	0.13060E-06	480388.6	3770782.3	369.0	0.00	3.38	0.85	YES	
L0007539	0	0.13060E-06	480395.9	3770782.4	369.0	0.00	3.38	0.85	YES	
L0007540	0	0.13060E-06	480403.2	3770782.4	369.1	0.00	3.38	0.85	YES	
L0007541	0	0.13060E-06	480410.5	3770782.5	369.4	0.00	3.38	0.85	YES	
L0007542	0	0.13060E-06	480417.7	3770782.5	369.6	0.00	3.38	0.85	YES	
L0007543	0	0.13060E-06	480425.0	3770782.6	369.8	0.00	3.38	0.85	YES	
L0007544	0	0.13060E-06	480432.3	3770782.7	370.0	0.00	3.38	0.85	YES	
L0007545	0	0.13060E-06	480439.6	3770782.7	370.0	0.00	3.38	0.85	YES	
L0007546	0	0.13060E-06	480446.8	3770782.8	370.0	0.00	3.38	0.85	YES	
L0007547	0	0.13060E-06	480454.1	3770782.8	370.0	0.00	3.38	0.85	YES	
L0007548	0	0.13060E-06	480461.4	3770782.9	370.0	0.00	3.38	0.85	YES	
L0007549	0	0.13060E-06	480468.7	3770782.9	370.0	0.00	3.38	0.85	YES	
L0007550	0	0.13060E-06	480475.9	3770783.0	370.0	0.00	3.38	0.85	YES	
L0007551	0	0.13060E-06	480483.2	3770783.1	370.0	0.00	3.38	0.85	YES	
L0007552	0	0.13060E-06	480490.5	3770783.1	370.0	0.00	3.38	0.85	YES	
L0007553	0	0.13060E-06	480497.7	3770783.2	370.3	0.00	3.38	0.85	YES	
L0007554	0	0.13060E-06	480505.0	3770783.2	370.5	0.00	3.38	0.85	YES	
L0007555	0	0.13060E-06	480512.3	3770783.3	370.8	0.00	3.38	0.85	YES	
L0007556	0	0.13060E-06	480519.6	3770783.3	371.0	0.00	3.38	0.85	YES	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0007557	0	0.13060E-06	480526.8	3770783.4	371.0	0.00	3.38	0.85	YES	
L0007558	0	0.13060E-06	480534.1	3770783.5	371.0	0.00	3.38	0.85	YES	
L0007559	0	0.13060E-06	480541.4	3770783.5	371.0	0.00	3.38	0.85	YES	
L0007560	0	0.13060E-06	480548.7	3770783.6	371.0	0.00	3.38	0.85	YES	
L0007561	0	0.13060E-06	480555.9	3770783.6	371.2	0.00	3.38	0.85	YES	
L0007562	0	0.13060E-06	480563.2	3770783.7	371.4	0.00	3.38	0.85	YES	
L0007563	0	0.13060E-06	480570.5	3770783.8	371.7	0.00	3.38	0.85	YES	
L0007564	0	0.13060E-06	480577.8	3770783.8	371.9	0.00	3.38	0.85	YES	
L0007565	0	0.13060E-06	480585.0	3770783.9	372.0	0.00	3.38	0.85	YES	
L0007566	0	0.13060E-06	480592.3	3770783.9	372.0	0.00	3.38	0.85	YES	
L0007567	0	0.13060E-06	480599.6	3770784.0	372.0	0.00	3.38	0.85	YES	
L0007568	0	0.13060E-06	480606.9	3770784.0	372.0	0.00	3.38	0.85	YES	
L0007569	0	0.13060E-06	480614.1	3770784.1	372.0	0.00	3.38	0.85	YES	
L0007570	0	0.13060E-06	480621.4	3770784.2	372.0	0.00	3.38	0.85	YES	
L0007571	0	0.13060E-06	480628.7	3770784.2	372.0	0.00	3.38	0.85	YES	
L0007572	0	0.13060E-06	480636.0	3770784.3	372.0	0.00	3.38	0.85	YES	
L0007573	0	0.13060E-06	480643.2	3770784.3	372.1	0.00	3.38	0.85	YES	
L0007574	0	0.13060E-06	480650.5	3770784.4	372.4	0.00	3.38	0.85	YES	
L0007575	0	0.13060E-06	480657.8	3770784.4	372.6	0.00	3.38	0.85	YES	
L0007576	0	0.13060E-06	480665.0	3770784.5	372.8	0.00	3.38	0.85	YES	
L0007577	0	0.13060E-06	480672.3	3770784.6	373.0	0.00	3.38	0.85	YES	
L0007578	0	0.13060E-06	480679.6	3770784.6	373.0	0.00	3.38	0.85	YES	
L0007579	0	0.13060E-06	480686.9	3770784.7	373.0	0.00	3.38	0.85	YES	
L0007580	0	0.13060E-06	480694.1	3770784.7	373.0	0.00	3.38	0.85	YES	
L0007581	0	0.13060E-06	480701.4	3770784.8	373.1	0.00	3.38	0.85	YES	
L0007582	0	0.13060E-06	480708.7	3770784.8	373.3	0.00	3.38	0.85	YES	
L0007583	0	0.13060E-06	480716.0	3770784.9	373.5	0.00	3.38	0.85	YES	
L0007584	0	0.13060E-06	480723.2	3770785.0	373.8	0.00	3.38	0.85	YES	
L0007585	0	0.13060E-06	480730.5	3770785.0	374.0	0.00	3.38	0.85	YES	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	STCK1 , L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 ,
	L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 ,
	L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 ,
	L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 ,
	L0000032 , L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 ,
	L0007236 , L0007237 , L0007238 , L0007239 , L0007240 , L0007241 , L0007242 , L0007243 ,
	L0007244 , L0007245 , L0007246 , L0007247 , L0007248 , L0007249 , L0007250 , L0007251 ,
	L0007252 , L0007253 , L0007254 , L0007255 , L0007256 , L0007257 , L0007258 , L0007259 ,
	L0007260 , L0007261 , L0007262 , L0007263 , L0007264 , L0007265 , L0007266 , L0007267 ,
	L0007268 , L0007269 , L0007270 , L0007271 , L0007272 , L0007273 , L0007274 , L0007275 ,
	L0007276 , L0007277 , L0007278 , L0007279 , L0007280 , L0007281 , L0007282 , L0007283 ,
	L0007284 , L0007285 , L0007286 , L0007287 , L0007288 , L0007289 , L0007290 , L0007291 ,
	L0007292 , L0007293 , L0007294 , L0007295 , L0007296 , L0007297 , L0007298 , L0007299 ,
	L0007300 , L0007301 , L0007302 , L0007303 , L0007304 , L0007305 , L0007306 , L0007307 ,
	L0007308 , L0007309 , L0007310 , L0007311 , L0007312 , L0007313 , L0007314 , L0007315 ,
	L0007316 , L0007317 , L0007318 , L0007319 , L0007320 , L0007321 , L0007322 , L0007323 ,
	L0007324 , L0007325 , L0007326 , L0007327 , L0007328 , L0007329 , L0007330 , L0007331 ,
	L0007332 , L0007333 , L0007334 , L0007335 , L0007336 , L0007337 , L0007338 , L0007339 ,
	L0007340 , L0007341 , L0007342 , L0007343 , L0007344 , L0007345 , L0007346 , L0007347 ,
	L0007348 , L0007349 , L0007350 , L0007351 , L0007352 , L0007353 , L0007354 , L0007355 ,

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

L0007356 , L0007357 , L0007358 , L0007359 , L0007360 , L0007361 , L0007362 , L0007363 ,
L0007364 , L0007365 , L0007366 , L0007367 , L0007368 , L0007369 , L0007370 , L0007371 ,
L0007372 , L0007373 , L0007374 , L0007375 , L0007376 , L0007377 , L0007378 , L0007379 ,
L0007380 , L0007381 , L0007382 , L0007383 , L0007384 , L0007385 , L0007386 , L0007387 ,
L0007388 , L0007389 , L0007390 , L0007391 , L0007392 , L0007393 , L0007394 , L0007395 ,
L0007396 , L0007397 , L0007398 , L0007399 , L0007400 , L0007401 , L0007402 , L0007403 ,
L0007404 , L0007405 , L0007406 , L0007407 , L0007408 , L0007409 , L0007410 , L0007411 ,
L0007412 , L0007413 , L0007414 , L0007415 , L0007416 , L0007417 , L0007418 , L0007419 ,
L0007420 , L0007421 , L0007422 , L0007423 , L0007424 , L0007425 , L0007426 , L0007427 ,
L0007428 , L0007429 , L0007430 , L0007431 , L0007432 , L0007433 , L0007434 , L0007435 ,
L0007436 , L0007437 , L0007438 , L0007439 , L0007440 , L0007441 , L0007442 , L0007443 ,
L0007444 , L0007445 , L0007446 , L0007447 , L0007448 , L0007449 , L0007450 , L0007451 ,
L0007452 , L0007453 , L0007454 , L0007455 , L0007456 , L0007457 , L0007458 , L0007459 ,
L0007460 , L0007461 , L0007462 , L0007463 , L0007464 , L0007465 , L0007466 , L0007467 ,
L0007468 , L0007469 , L0007470 , L0007471 , L0007472 , L0007473 , L0007474 , L0007475 ,
L0007476 , L0007477 , L0007478 , L0007479 , L0007480 , L0007481 , L0007482 , L0007483 ,
L0007484 , L0007485 , L0007486 , L0007487 , L0007488 , L0007489 , L0007490 , L0007491 ,
L0007492 , L0007493 , L0007494 , L0007495 , L0007496 , L0007497 , L0007498 , L0007499 ,
L0007500 , L0007501 , L0007502 , L0007503 , L0007504 , L0007505 , L0007506 , L0007507 ,
L0007508 , L0007509 , L0007510 , L0007511 , L0007512 , L0007513 , L0007514 , L0007515 ,

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

L0007516 , L0007517 , L0007518 , L0007519 , L0007520 , L0007521 , L0007522 , L0007523 ,
L0007524 , L0007525 , L0007526 , L0007527 , L0007528 , L0007529 , L0007530 , L0007531 ,
L0007532 , L0007533 , L0007534 , L0007535 , L0007536 , L0007537 , L0007538 , L0007539 ,
L0007540 , L0007541 , L0007542 , L0007543 , L0007544 , L0007545 , L0007546 , L0007547 ,
L0007548 , L0007549 , L0007550 , L0007551 , L0007552 , L0007553 , L0007554 , L0007555 ,
L0007556 , L0007557 , L0007558 , L0007559 , L0007560 , L0007561 , L0007562 , L0007563 ,
L0007564 , L0007565 , L0007566 , L0007567 , L0007568 , L0007569 , L0007570 , L0007571 ,
L0007572 , L0007573 , L0007574 , L0007575 , L0007576 , L0007577 , L0007578 , L0007579 ,
L0007580 , L0007581 , L0007582 , L0007583 , L0007584 , L0007585 ,

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.2,	499.9,	222.7,	-55.2,	19.4,	2	12.2,	501.2,	297.9,	-97.1,	28.7,
3	12.2,	487.2,	364.1,	-136.1,	37.1,	4	12.2,	458.4,	419.1,	-170.9,	44.4,
5	12.2,	415.7,	461.5,	-200.5,	50.3,	6	12.2,	360.4,	489.8,	-224.1,	54.7,
7	12.2,	294.1,	503.2,	-240.8,	57.4,	8	12.2,	218.8,	501.4,	-250.2,	58.4,
9	12.2,	140.8,	484.3,	-252.1,	58.8,	10	12.2,	222.7,	499.9,	-269.4,	56.2,
11	12.2,	297.9,	501.2,	-279.3,	51.9,	12	12.2,	364.1,	487.2,	-280.7,	46.0,
13	12.2,	419.1,	458.4,	-273.6,	38.7,	14	12.2,	461.5,	415.7,	-258.2,	30.2,
15	12.2,	489.8,	360.4,	-234.9,	20.8,	16	12.2,	503.2,	294.1,	-204.5,	10.8,
17	12.2,	501.4,	218.8,	-167.9,	0.5,	18	12.2,	484.3,	140.8,	-129.2,	-9.9,
19	12.2,	499.9,	222.7,	-167.6,	-19.4,	20	12.2,	501.2,	297.9,	-200.8,	-28.7,
21	12.2,	487.2,	364.1,	-228.0,	-37.1,	22	12.2,	458.4,	419.1,	-248.2,	-44.4,
23	12.2,	415.7,	461.5,	-260.9,	-50.3,	24	12.2,	360.4,	489.8,	-265.7,	-54.7,
25	12.2,	294.1,	503.2,	-262.4,	-57.4,	26	12.2,	218.8,	501.4,	-251.1,	-58.4,

```
  27   12.2,  140.8,  484.3, -232.2,  -58.8,     28   12.2,  222.7,  499.9, -230.6,  -56.2,
  29   12.2,  297.9,  501.2, -221.9,  -51.9,     30   12.2,  364.1,  487.2, -206.5,  -46.0,
  31   12.2,  419.1,  458.4, -184.8,  -38.7,     32   12.2,  461.5,  415.7, -157.6,  -30.2,
  33   12.2,  489.8,  360.4, -125.5,  -20.8,     34   12.2,  503.2,  294.1,  -89.6,  -10.8,
  35   12.2,  501.4,  218.8,  -51.0,   -0.5,     36   12.2,  484.3,  140.8,  -11.6,    9.9,
```


*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```
( 480158.0, 3770598.0,     366.0,     366.0,       0.0);        ( 480390.0, 3770641.0,     369.0,     369.0,       0.0);
( 480613.0, 3770734.0,     372.0,     372.0,       0.0);        ( 480552.0, 3770362.0,     372.0,     372.0,       0.0);
( 480223.0, 3770160.0,     368.0,     368.0,       0.0);        ( 479911.0, 3770454.0,     362.7,     362.7,       0.0);
( 479848.0, 3770833.0,     362.0,     362.0,       0.0);        ( 480165.0, 3770832.0,     366.0,     366.0,       0.0);
```


*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54,   3.09,   5.14,   8.23, 10.80,

**MODELOPTs: NonDFAULT CONC ELEV FASTALL

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\..\..\..\Met data\SNBO2.SFC Met Version: 11059
Profile file: ..\..\..\..\Met data\SNBO2.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air station no.: 3190
Name: 474.76 Name: UNKNOWN
Year: 2005 Year: 2005

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
05	01	01	1	01	-0.2	0.017	-9.000	-9.000	-999.	5.	1.9	0.36	1.00	1.00	0.28	81.	9.1	279.2	5.5
05	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.36	1.00	1.00	999.00	999.	-9.0	279.9	5.5
05	01	01	1	03	-0.2	0.017	-9.000	-9.000	-999.	5.	1.9	0.36	1.00	1.00	0.28	94.	9.1	278.8	5.5
05	01	01	1	04	-0.2	0.017	-9.000	-9.000	-999.	5.	2.2	0.36	1.00	1.00	0.28	43.	9.1	278.8	5.5
05	01	01	1	05	-0.2	0.017	-9.000	-9.000	-999.	5.	2.6	0.36	1.00	1.00	0.28	20.	9.1	278.8	5.5
05	01	01	1	06	-0.2	0.019	-9.000	-9.000	-999.	6.	2.8	0.36	1.00	1.00	0.30	69.	9.1	278.8	5.5
05	01	01	1	07	-0.6	0.031	-9.000	-9.000	-999.	12.	4.6	0.36	1.00	1.00	0.50	46.	9.1	278.8	5.5
05	01	01	1	08	-0.2	0.019	-9.000	-9.000	-999.	6.	2.3	0.36	1.00	0.52	0.30	157.	9.1	279.2	5.5
05	01	01	1	09	30.3	0.078	0.394	0.005	70.	51.	-1.4	0.36	1.00	0.31	0.30	22.	9.1	280.4	5.5
05	01	01	1	10	79.7	0.161	1.204	0.005	764.	149.	-4.6	0.36	1.00	0.24	0.80	17.	9.1	283.1	5.5
05	01	01	1	11	120.6	0.128	1.527	0.007	1029.	106.	-1.5	0.36	1.00	0.21	0.50	113.	9.1	285.4	5.5
05	01	01	1	12	133.4	0.222	1.674	0.009	1228.	240.	-7.1	0.36	1.00	0.20	1.20	192.	9.1	284.2	5.5
05	01	01	1	13	81.5	0.198	1.428	0.009	1246.	203.	-8.3	0.36	1.00	0.20	1.10	190.	9.1	285.4	5.5
05	01	01	1	14	81.2	0.090	1.433	0.009	1264.	68.	-1.0	0.36	1.00	0.22	0.30	354.	9.1	285.4	5.5
05	01	01	1	15	36.7	0.122	1.102	0.009	1272.	99.	-4.4	0.36	1.00	0.25	0.60	14.	9.1	284.9	5.5
05	01	01	1	16	0.8	0.061	0.314	0.009	1272.	36.	-23.8	0.36	1.00	0.34	0.40	359.	9.1	284.2	5.5
05	01	01	1	17	0.2	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.36	1.00	0.63	999.00	999.	-9.0	283.8	5.5
05	01	01	1	18	-0.4	0.025	-9.000	-9.000	-999.	9.	3.7	0.36	1.00	1.00	0.40	261.	9.1	283.1	5.5
05	01	01	1	19	-2.7	0.068	-9.000	-9.000	-999.	41.	10.2	0.36	1.00	1.00	1.10	224.	9.1	282.5	5.5
05	01	01	1	20	-1.4	0.049	-9.000	-9.000	-999.	25.	7.4	0.36	1.00	1.00	0.80	207.	9.1	282.5	5.5
05	01	01	1	21	-1.5	0.043	-9.000	-9.000	-999.	21.	4.8	0.36	1.00	1.00	0.70	88.	9.1	282.0	5.5
05	01	01	1	22	-0.3	0.019	-9.000	-9.000	-999.	6.	2.0	0.36	1.00	1.00	0.30	97.	9.1	280.9	5.5
05	01	01	1	23	-0.6	0.031	-9.000	-9.000	-999.	12.	4.0	0.36	1.00	1.00	0.50	52.	9.1	279.9	5.5
05	01	01	1	24	-0.2	0.017	-9.000	-9.000	-999.	5.	2.2	0.36	1.00	1.00	0.28	73.	9.1	279.2	5.5

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
05	01	01	01	5.5	0	-999.	-99.00	279.3	99.0	-99.00	-99.00
05	01	01	01	9.1	1	81.	0.10	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 3 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): STCK1 , L0000001 , L0000002 , L0000003 , L0000004 ,
L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 ,
L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 ,
L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480158.00	3770598.00	0.00262	480390.00	3770641.00	0.00414
480613.00	3770734.00	0.00182	480552.00	3770362.00	0.00213
480223.00	3770160.00	0.00148	479911.00	3770454.00	0.00530
479848.00	3770833.00	0.00109	480165.00	3770832.00	0.00202

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 3 YEARS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00530 AT	(479911.00, 3770454.00, 362.70, 362.70, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00414 AT	(480390.00, 3770641.00, 369.00, 369.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00262 AT	(480158.00, 3770598.00, 366.00, 366.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00213 AT	(480552.00, 3770362.00, 372.00, 372.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00202 AT	(480165.00, 3770832.00, 366.02, 366.02, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00182 AT	(480613.00, 3770734.00, 372.00, 372.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00148 AT	(480223.00, 3770160.00, 368.00, 368.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00109 AT	(479848.00, 3770833.00, 362.00, 362.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00000 AT	(0.00, 0.00, 0.00, 0.00, 0.00)		
	10TH HIGHEST VALUE IS	0.00000 AT	(0.00, 0.00, 0.00, 0.00, 0.00)		

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR

**MODELOPTs: NonDFAULT CONC   ELEV   FASTALL

*** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

A Total of   0 Fatal Error Message(s)
A Total of   2 Warning Message(s)
A Total of   1292 Informational Message(s)

A Total of   26280 Hours Were Processed

A Total of   0 Calm Hours Identified

A Total of   1292 Missing Hours Identified (4.92 Percent)

   ******** FATAL ERROR MESSAGES ********
             *** NONE ***

   ********   WARNING MESSAGES   ********
SO W320   511 PPARM:Input Parameter May Be Out-of-Range for Parameter   VS
ME W396   973 MEOPEN:Met data from outdated version of AERMET, version: 11059

   ****
   *** AERMOD Finishes Successfully ***
   ****

EMFAC2011 for San Bernardino County (SC)				PM10 Running Exha	Averages at bottom of sheet																					
Area	Season	Veh	Fuel	MdlYr	Speed	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
					(Miles/hr)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)
San Bernardino (SC)	Annual	LDA	GAS	AllMYr	5	0.0106813	0.01042934	0.01038854	0.010502234	0.01073767	0.0110349	0.0113455	0.011663	0.011968	0.012258	0.0125463	0.01283034	0.0130812	0.0132952	0.0134669	0.0136	0.013698289	0.0137675	0.013813723	0.0138352	0.013837084
San Bernardino (SC)	Annual	LDA	DSL	AllMYr	5	0.086408	0.0720703	0.06032564	0.051448577	0.04366506	0.0376328	0.0328179	0.028569	0.024792	0.021389	0.0190047	0.01693718	0.01516071	0.0138593	0.0130579	0.012485	0.012189441	0.0118801	0.01170079	0.01155272	0.011399999
San Bernardino (SC)	Annual	LDA	GAS	AllMYr	10	0.0068387	0.00665995	0.00661539	0.006671253	0.00680843	0.006988	0.0071779	0.007372	0.007558	0.007735	0.0079123	0.00808903	0.00824499	0.0083779	0.0084836	0.008565	0.008625255	0.0086672	0.008694981	0.00870748	0.008707726
San Bernardino (SC)	Annual	LDA	DSL	AllMYr	10	0.0761361	0.06344755	0.05305215	0.045192398	0.03830054	0.0329572	0.0286901	0.024925	0.021577	0.018561	0.0164473	0.01461442	0.01303979	0.0118858	0.0111741	0.010664	0.01039985	0.010124	0.009963724	0.00983185	0.009696595
San Bernardino (SC)	Annual	LDA	GAS	AllMYr	15	0.0046166	0.00448469	0.00444265	0.004469375	0.00455322	0.0046676	0.00479	0.004915	0.005035	0.005148	0.0052636	0.00537957	0.00548189	0.0055689	0.0056377	0.005691	0.005729237	0.005756	0.005773685	0.00578134	0.00578091
San Bernardino (SC)	Annual	LDA	DSL	AllMYr	15	0.0602036	0.05011104	0.04184077	0.035585114	0.03009946	0.0258441	0.0224435	0.019442	0.016775	0.014372	0.0126861	0.01122477	0.00996964	0.0090493	0.0084806	0.008072	0.007858706	0.0076369	0.007507886	0.0074021	0.007294413
San Bernardino (SC)	Annual	LDA	GAS	AllMYr	20	0.0032845	0.00318319	0.0031453	0.003156982	0.00321081	0.0032876	0.0033709	0.003456	0.003537	0.003614	0.0036931	0.00377357	0.00384445	0.0039047	0.003952	0.003988	0.00401445	0.0040326	0.004044418	0.00404937	0.004048699
San Bernardino (SC)	Annual	LDA	DSL	AllMYr	20	0.0487695	0.04057317	0.03385611	0.02877438	0.02431802	0.0208603	0.0180964	0.015657	0.013489	0.011536	0.0101654	0.00897749	0.00795725	0.007209	0.0067462	0.006414	0.00623906	0.0060582	0.005952791	0.00586657	0.00577908
San Bernardino (SC)	Annual	LDA	GAS	AllMYr	25	0.0024616	0.00238063	0.00234678	0.002350498	0.00238688	0.0024414	0.0025012	0.002563	0.002621	0.002675	0.0027328	0.00279172	0.0028436	0.0028876	0.002922	0.002948	0.002967192	0.0029802	0.002988614	0.00299203	0.002991295
San Bernardino (SC)	Annual	LDA	DSL	AllMYr	25	0.0404674	0.03367051	0.02810041	0.023886584	0.02019135	0.0173244	0.0150328	0.01301	0.011213	0.009593	0.0084573	0.00747238	0.00662652	0.0060062	0.0056226	0.005347	0.005202455	0.0050526	0.004965335	0.0048939	0.004821351
San Bernardino (SC)	Annual	LDA	GAS	AllMYr	30	0.0019426	0.00187528	0.00184475	0.001844161	0.00187014	0.001911	0.0019565	0.002003	0.002047	0.002088	0.0021325	0.00217808	0.00221822	0.0022523	0.0022787	0.002299	0.002313359	0.0023232	0.002329635	0.00233215	0.002331442
San Bernardino (SC)	Annual	LDA	DSL	AllMYr	30	0.0343961	0.02864081	0.02392495	0.020358343	0.01723081	0.0148051	0.0128671	0.011157	0.009636	0.008267	0.0073064	0.0064737	0.00575844	0.0052341	0.0049102	0.004678	0.004556685	0.0044306	0.004357341	0.00429718	0.004235788
San Bernardino (SC)	Annual	LDA	GAS	AllMYr	35	0.0016138	0.00155547	0.0015274	0.001524395	0.00154406	0.0015766	0.0016131	0.001651	0.001686	0.001719	0.0017547	0.00179197	0.00182481	0.0018526	0.0018742	0.001891	0.001902428	0.0019104	0.0019156	0.00191759	0.001916944
San Bernardino (SC)	Annual	LDA	DSL	AllMYr	35	0.0299541	0.02497868	0.02090293	0.017822084	0.01512073	0.013027	0.0113556	0.009881	0.00857	0.007388	0.0065604	0.00584268	0.00522598	0.0047742	0.0044958	0.004297	0.00419393	0.0040864	0.004024018	0.00397256	0.003919551
San Bernardino (SC)	Annual	LDA	GAS	AllMYr	40	0.0014109	0.00135827	0.00133179	0.001327363	0.00134321	0.0013707	0.0014018	0.001434	0.001463	0.001492	0.0015223	0.00155464	0.00158305	0.0016071	0.0016258	0.00164	0.001650194	0.0016571	0.001661564	0.00166327	0.001662694
San Bernardino (SC)	Annual	LDA	DSL	AllMYr	40	0.0267385	0.02234839	0.01875362	0.016038673	0.01365846	0.0118156	0.0103464	0.00905	0.007898	0.006859	0.0061323	0.00550197	0.00496013	0.0045636	0.0043203	0.004147	0.004059142	0.0039663	0.003912623	0.00386799	0.003821312
San Bernardino (SC)	Annual	LDA	GAS	AllMYr	45	0.001298	0.00124849	0.00122277	0.001217414	0.00123109	0.0012557	0.0012838	0.001313	0.001339	0.001365	0.0013926	0.0014222	0.00144821	0.0014703	0.0014874	0.0015	0.001509808	0.0015162	0.001520281	0.00152187	0.001521362
San Bernardino (SC)	Annual	LDA	DSL	AllMYr	45	0.024483	0.02053112	0.01729723	0.014857933	0.0127198	0.011067	0.0097521	0.008592	0.007561	0.006631	0.0059814	0.00541791	0.00493326	0.0045791	0.0043632	0.00421	0.004135155	0.0040542	0.004007831	0.0039687	0.003926797
San Bernardino (SC)	Annual	LDA	GAS	AllMYr	50	0.0012565	0.00120792	0.00118213	0.00117608	0.00118875	0.0012122	0.0012391	0.001267	0.001292	0.001316	0.0013433	0.00137193	0.00139712	0.0014185	0.0014352	0.001448	0.001457038	0.0014633	0.001467327	0.00146892	0.00146849
San Bernardino (SC)	Annual	LDA	DSL	AllMYr	50	0.0230208	0.0193942	0.01642927	0.014197024	0.01224094	0.0107324	0.0095358	0.008481	0.007542	0.006695	0.006106	0.00559426	0.00515366	0.0048325	0.0046384	0.004502	0.004438593	0.0043679	0.004327866	0.00429334	0.004255057
San Bernardino (SC)	Annual	LDA	GAS	AllMYr	55	0.0012799	0.00123019	0.00120342	0.001196762	0.00120942	0.0012332	0.0012606	0.001288	0.001314	0.001338	0.0013663	0.0013956	0.0014214	0.0014433	0.0014605	0.001474	0.001483164	0.0014897	0.001493926	0.00149565	0.001495302
San Bernardino (SC)	Annual	LDA	DSL	AllMYr	55	0.0222646	0.018876	0.01610933	0.014032036	0.0122125	0.0108141	0.0097098	0.008737	0.007871	0.007088	0.0065465	0.00607564	0.00566961	0.0053747	0.005199	0.005077	0.005025083	0.004964	0.004929956	0.0048996	0.004864045
San Bernardino (SC)	Annual	LDA	GAS	AllMYr	60	0.0013721	0.00131897	0.00129018	0.001282919	0.00129654	0.0013222	0.0013517	0.001382	0.001409	0.001435	0.0014655	0.00149719	0.00152512	0.0015489	0.0015676	0.001582	0.001592528	0.0015998	0.001604489	0.00160648	0.001606235
San Bernardino (SC)	Annual	LDA	DSL	AllMYr	60	0.0222024	0.01898475	0.01636286	0.014402265	0.01268603	0.0113739	0.0103447	0.009438	0.008632	0.007901	0.0073993	0.00696237	0.00658476	0.006312	0.0061531	0.006045	0.00600597	0.0059548	0.005927363	0.0059012	0.005867756
San Bernardino (SC)	Annual	LDA	GAS	AllMYr	65	0.0015483	0.00148905	0.00145694	0.001449038	0.00146483	0.0014943	0.0015279	0.001562	0.001593	0.001623	0.0016577	0.00169398	0.00172594	0.0017531	0.0017748	0.001792	0.001803756	0.0018122	0.001817843	0.00182029	0.00182018
San Bernardino (SC)	Annual	LDA	DSL	AllMYr	65	0.0229084	0.01981345	0.0172992	0.015430828	0.01379692	0.0125579	0.0115962	0.010751	0.009997	0.009313	0.0088486	0.00844324	0.00809167	0.00784	0.0076987	0.007606	0.007583583	0.0075445	0.00752513	0.00750387	0.007472159
San Bernardino (SC)	Annual	LDA	GAS	AllMYr	70					0.00158802	0.0016203	0.0016569	0.001694	0.001728	0.001761	0.0017987	0.00183826	0.00187315	0.0019029	0.0019266	0.001945	0.001958505	0.0019679	0.001974119	0.00197688	0.001976867
San Bernardino (SC)	Annual	LDA	DSL	AllMYr	70					0.01581523	0.0146501	0.0137619	0.012983	0.012287	0.011653	0.011231	0.01086123	0.01053848	0.010311	0.0101918	0.01012	0.010120874	0.0100985	0.01009058	0.01007598	0.010045957
San Bernardino (SC)	Annual	LDT1	GAS	AllMYr	5	0.0238728	0.02244756	0.0212693	0.020295083	0.01953481	0.0188791	0.0182913	0.01774	0.01722	0.016746	0.0163243	0.01598312	0.01567297	0.0153918	0.0151225	0.014866	0.014589223	0.0143627	0.014163993	0.01397747	0.013850213
San Bernardino (SC)	Annual	LDT1	DSL	AllMYr	5	0.1689306	0.13814669	0.12185203	0.106504254	0.08964581	0.0780387	0.0728755	0.069659	0.063571	0.056021	0.0474989	0.04084644	0.02284593	0.0158364	0.0126167	0.010669	0.010537165	0.0105069	0.010613884	0.01067776	0.01068819
San Bernardino (SC)	Annual	LDT1	GAS	AllMYr	10	0.0156264	0.01465575	0.01384732	0.013175696	0.01265158	0.0121982	0.0117916	0.011411	0.011051	0.010723	0.010431	0.01019446	0.00997939	0.0097841	0.0095966	0.009418	0.009227073	0.0090715	0.008936822	0.00881062	0.008725142
San Bernardino (SC)	Annual	LDT1	DSL	AllMYr	10	0.1490893	0.12186417	0.10744684	0.093867582	0.07895441	0.0686834	0.0641084	0.061255	0.055866	0.049187	0.0416486	0.03576328	0.019852	0.0136503	0.0107981	0.009071	0.008948591	0.0089178	0.009008653	0.00906287	0.009071721
San Bernardino (SC)	Annual	LDT1	GAS	AllMYr	15	0.0107606	0.01006835	0.00948816	0.009004332	0.00862708	0.0083	0.0080067	0.007732	0.007473	0.007236	0.0070249	0.00685411	0.00669871	0.0065575	0.0064215	0.006292	0.006154772	0.0060432	0.005947765	0.00585841	0.005798254
San Bernardino (SC)	Annual	LDT1	DSL	AllMYr	15	0.1181479	0.09651226	0.08504795	0.074250384	0.062395	0.0542265	0.0505816	0.048305	0.044017	0.038706	0.0327147	0.02803563	0.01539978	0.0104687	0.008197	0.006819	0.00671607	0.0066874	0.006755489	0.00679614	0.006802783
San Bernardino (SC)	Annual	LDT1	GAS	AllMYr	20	0.0077863	0.00726977	0.00683466	0.006470794	0.0061876	0.0059417	0.0057212	0.005515	0.00532	0.005142	0.0049832	0.00485482	0.00473799	0.0046318	0.0045293	0.004432	0.004328882	0.0042455	0.004174868	0.00410878	0.004064492
San Bernardino (SC)	Annual	LDT1	DSL	AllMYr	20	0.0957987	0.07823458	0.0689253	0.060157557	0.05053184	0.0438984	0.0409362	0.039085	0.035602	0.03129	0.0264254	0.02262612	0.01237122	0.0083672	0.0065212	0.005401	0.005315153	0.0052904	0.005344272	0.00537643	0.005381687
San Bernardino (SC)	Annual	LDT1	GAS	AllMYr	25	0.0059142	0.00551135	0.00517062	0.004885128	0.0046636	0.0044711	0.0042986	0.004137	0.003985	0.003845	0.0037211	0.00362077	0.00352944	0.0034464	0.0033661	0.00329	0.003209661	0.0031448	0.003090273	0.00303927	0.00300522
San Bernardino (SC)	Annual	LDT1	DSL	AllMYr	25	0.0794728	0.0649062	0.05718612	0.049915086	0.04193236	0.0364314	0.0339754	0.03244	0.029553	0.025976	0.0219422	0.01879148	0.01028606	0.0069656	0.005435	0.004506	0.004435482	0.0044152	0.004460208	0.00448705	0.004491434
San Bernardino (SC)	Annual	LDT1	GAS	AllMYr	30	0.0047117	0.00438343	0.00410496	0.003871368	0.0036909	0.0035341	0.0033936	0.003262	0.003138	0.003025	0.0029236	0.00284206	0.00276789	0.0027005	0.0026352	0.002574	0.002508289	0.0024559	0.002411955	0.00237093	0.002343615
San Bernardino (SC)	Annual	LDT1	DSL	AllMYr	30	0.0674544	0.05511298	0.04857479	0.04241678	0.03565497	0.0309966	0.0289192	0.027622	0.025177	0.022148	0.0187309	0.01606221	0.00885289	0.0060406	0.0047457	0.003961	0.00390296	0.0038874	0.003926959	0.00395059	0.003954451
San Bernardino (SC)	Annual	LDT1	GAS	AllMYr	35	0.0039346	0.00365535	0.00341788	0.003218622	0.00306555	0.0029326	0.0028136	0.002702	0.002597	0.002501	0.0024158	0.00234703	0.00228447	0.0022277	0.0021726	0.002121	0.002065694	0.0020216	0.001984831	0.00195046	0.001927614
San Bernardino (SC)	Annual	LDT1	DSL	AllMYr	35	0.0585837	0.04790279	0.04224855	0.036922899	0.0310733	0.0270455	0.0252533	0.024136	0.022024	0.019404	0.016447	0.01413864	0.0078939	0.0054616	0.0043441	0.003668	0.003621582	0.0036107	0.003647476	0.00366943	0.003673012
San Bernardino (SC)	Annual	LDT1	GAS	AllMYr	40	0.003443	0.00319482	0.00298354	0.002806333	0.00267118	0.002554	0.0024492	0.002351	0.002259	0.002174	0.002099	0.00203875	0.00198397	0.0019343	0.0018861	0.001841	0.001792601	0.0017541	0.001722016	0.00169204	0.00167212
San Bernardino (SC)	Annual	LDT1	DSL	AllMYr	40	0.0520719	0.04263078	0.03763887	0.03293678	0.02776961	0.0242147	0.0226386	0.021659	0.019796	0.017483	0.0148701	0.01283154	0.00730406	0.0051564	0.004173	0.00358	0.003543976	0.003538	0.003574072	0.00359558	0.003599093
San Bernardino (SC)	Annual	LDT1	GAS	AllMYr	45	0.0031565	0.0029263	0.00273014	0.002565803	0.00244156	0.0023341	0.002238	0.002148	0.002064	0.001986	0.0019175	0.00186269	0.00181287	0.0017678	0.001724	0.001683	0.001639148	0.0016042	0.001575081	0.00154787	0.001529768
San Bernardino (SC)	Annual	LDT1	DSL	AllMYr	45	0.0473838	0.0388628	0.03436539	0.030128701	0.02546966	0.0222683	0.0208565	0.019983	0.018308	0.016223	0.0138662	0.01202862	0.0070296	0.0050942	0.0042126	0.003683	0.003657795	0.0036574	0.003694612	0.00371685	0.003720477
San Bernardino (SC)	Annual	LDT1	GAS	AllMYr	50	0.0030324	0.00280932	0.00261922	0.002460247	0.00234129	0.0022387	0.0021471	0.002062	0.001981	0.001907	0.001842	0.00179012	0.00174308	0.0017006	0.0016593	0.00162	0.00157938	0.0015464	0.001518906	0.00149318	0.001476041
San Bernardino (SC)	Annual	LDT1	DSL	AllMYr	50	0.044165	0.0363155	0.03218328	0.028290102	0.02400437	0.0210649	0.0197787	0.018989	0.017454	0.015537	0.0133674	0.01167783	0.0070592	0.0052804	0.0044762	0.003997	0.003982311	0.0039885	0.00402911	0.00405336	0.004057317
San Bernardino (SC)	Annual	LDT1	GAS	AllMYr	55	0.0030538	0.00282783	0.00263543	0.002474932	0.00235624	0.0022542	0.0021633	0.002079	0.001999	0.001926	0.001861	0.00181007	0.00176392	0.0017224	0.0016819	0.001644	0.001603739	0.0015715	0.00154435	0.00151902	0.001502095
San Bernardino (SC)	Annual	LDT1	DSL	AllMYr	55	0.042197	0.03482177	0.03095376	0.027308813	0.02329031	0.0205414	0.0193524	0.01863	0.017198	0.015403	0.0133665	0.01178337	0.00742528	0.0057594	0.0050146	0.004575	0.004573899	0.0045886	0.004635368	0.00466326	0.004667819
San Bernardino (SC)	Annual	LDT1	GAS	AllMYr	60	0.0032255	0.00298625	0.00278276	0.002613531	0.00249004	0.0023844	0.0022904	0.002203	0.00212	0.002045	0.0019784	0.00192635	0.00187928	0.001837	0.0017959	0.001757	0.001716438	0.0016835	0.001655717	0.00162971	0.001612276
San Bernardino (SC)	Annual	LDT1	DSL	AllMYr	60	0.0413764	0.03431572	0.03063307	0.027161828	0.02332635	0.0207128	0.0196019	0.018937	0.017582	0.01587	0.0139246	0.012415	0.00821696	0.0066299	0.0059318	0.005527	0.00554261	0.0055692	0.005625926	0.00565978	0.005665312
San Bernardino (SC)	Annual	LDT1	GAS	AllMYr	65	0.003576	0.00331092	0.00308586	0.002899359	0.00276524	0.0026511	0.0025497	0.002456	0.002367	0.002286	0.0022141	0.00215875	0.0021088	0.0020642	0.0020207	0.00198	0.001936674	0.0019017	0.001871975	0.00184412	0.001825351
San Bernardino (SC)	Annual	LDT1	DSL	AllMYr	65	0.0417125	0.03483711	0.03128065	0.027926938	0.02420895	0.0216903	0.0206481	0.02004	0.018743	0.017087	0.0151971	0.01373594	0.00961052	0.0080762	0.0074183	0.007046	0.007086765	0.0071308	0.007203417	0.00724677	0.007253847
San Bernardino (SC)	Annual	LDT1	GAS	AllMYr	70					0.00296956	0.002849	0.002742	0.002643	0.002549	0.002464	0.0023883	0.00233034	0.0022781	0.0022315	0.0021862	0.002144	0.002098463	0.0020619	0.002030609	0.00200131	0.001981499
San Bernardino (SC)	Annual	LDT1	DSL	AllMYr	70					0.02617539	0.0237279	0.0227587	0.022218	0.02097	0.019352	0.0174925	0.01606275	0.01193156	0.0104332	0.0098165	0.009483	0.00956104	0.009632	0.009730113	0.00978867	0.009798233
San Bernardino (SC)	Annual	LDT2	GAS	AllMYr	5	0.0115005	0.01120155	0.01107709	0.011097865	0.01121457	0.0113899	0.011595	0.011818	0.012048	0.012272	0.0124924	0.0127161	0.01292164	0.0131042	0.0132606	0.013394	0.013503773	0.0135905	0.013652584	0.01369999	0.013731057
San Bernardino (SC)	Annual	LDT2	DSL	AllMYr	5	0.1068938	0.08702901	0.06172027	0.05013456	0.04629147	0.0424277	0.0405798	0.040021	0.035358	0.028767	0.025822	0.02471929	0.01969637	0.0158868	0.0146721	0.013437	0.012557852	0.0123102	0.012347516	0.01230035	0.012180447
San Bernardino (SC)	Annual	LDT2	GAS	AllMYr	10	0.0073656	0.00715424	0.00705429	0.007049923	0.00711063	0.0072117	0.0073342	0.007468	0.007608	0.007744	0.0078794	0.00801764	0.00814496	0.0082579	0.0083544	0.008437	0.008504274	0.0085574	0.008595215	0.00862386	0.008642359
San Bernardino (SC)	Annual	LDT2	DSL	AllMYr	10	0.0942641	0.07668857	0.05430145	0.044044306	0.04063153	0.0372026	0.0355553	0.035049	0.030918	0.025085	0.0224736	0.02149273	0.01705003	0.013679	0.0126015	0.011507	0.010726321	0.0105049	0.010535163	0.01049318	0.010386448
San Bernardino (SC)	Annual	LDT2	GAS	AllMYr	15	0.0049732	0.00481767	0.00473718	0.00472289	0.0047549	0.004816	0.004893	0.004978	0.005068	0.005155	0.0052423	0.00533249	0.00541573	0.0054895	0.0055523	0.005606	0.005649822	0.0056842	0.005708486	0.00572676	0.005738371
San Bernardino (SC)	Annual	LDT2	DSL	AllMYr	15	0.074621	0.06064605	0.04285057	0.034687699	0.03196066	0.029223	0.0279002	0.027484	0.024194	0.019554	0.0174721	0.01668653	0.01315544	0.0104746	0.0096147	0.008742	0.008118845	0.0079403	0.007961449	0.0079278	0.007842241
San Bernardino (SC)	Annual	LDT2	GAS	AllMYr	20	0.0035379	0.00341897	0.00335316	0.003335537	0.00335245	0.0033913	0.0034424	0.0035	0.00356	0.003619	0.0036786	0.00374079	0.00379827	0.0038492	0.0038924	0.003929	0.003959401	0.0039829	0.003999408	0.00401174	0.004019447
San Bernardino (SC)	Annual	LDT2	DSL	AllMYr	20	0.0604776	0.04912994	0.03468177	0.028051036	0.02583202	0.0236051	0.0225265	0.022184	0.019511	0.015742	0.0140497	0.01340988	0.01054312	0.0083661	0.0076668	0.006957	0.006450484	0.0063046	0.006320806	0.00629339	0.006223678
San Bernardino (SC)	Annual	LDT2	GAS	AllMYr	25	0.0026505	0.0025559	0.00250087	0.002482676	0.00249147	0.0025175	0.0025535	0.002594	0.002637	0.002679	0.0027223	0.00276762	0.00280958	0.0028467	0.0028781	0.002905	0.002926874	0.0029439	0.002955764	0.00296458	0.002970017
San Bernardino (SC)	Annual	LDT2	DSL	AllMYr	25	0.0501767	0.04076612	0.02878398	0.023285645	0.02144636	0.0196004	0.0187068	0.018424	0.016207	0.013082	0.0116789	0.01114865	0.00877117	0.0069658	0.0063861	0.005798	0.00537775	0.0052569	0.005270583	0.00524786	0.005190102
San Bernardino (SC)	Annual	LDT2	GAS	AllMYr	30	0.0020902	0.00201193	0.00196465	0.00194692	0.00195127	0.0019698	0.0019966	0.002027	0.00206	0.002092	0.0021245	0.00215937	0.00219176	0.0022204	0.0022446	0.002265	0.002282142	0.0022952	0.002304267	0.00231097	0.002315054
San Bernardino (SC)	Annual	LDT2	DSL	AllMYr	30	0.0426181	0.03464792	0.02449787	0.019843716	0.01829088	0.0167316	0.0159795	0.015745	0.013869	0.011223	0.010037	0.00958999	0.00757588	0.006047	0.0055572	0.00506	0.004704947	0.0046035	0.004616164	0.00459702	0.004548353
San Bernardino (SC)	Annual	LDT2	GAS	AllMYr	35	0.0017345	0.00166712	0.00162524	0.001608243	0.00161014	0.0016242	0.0016455	0.00167	0.001696	0.001722	0.0017481	0.00177662	0.00180309	0.0018265	0.0018462	0.001863	0.001876866	0.0018875	0.00189486	0.00190029	0.001903567
San Bernardino (SC)	Annual	LDT2	DSL	AllMYr	35	0.0370629	0.03016988	0.02138829	0.01736747	0.01603277	0.0146911	0.0140487	0.013854	0.012235	0.009948	0.0089255	0.0085424	0.00679959	0.0054776	0.0050559	0.004627	0.004321815	0.0042357	0.004248359	0.00423197	0.004190303
San Bernardino (SC)	Annual	LDT2	GAS	AllMYr	40	0.0015142	0.00145383	0.00141551	0.001399149	0.00139973	0.0014112	0.0014292	0.00145	0.001472	0.001494	0.0015167	0.00154133	0.00156422	0.0015845	0.0016016	0.001616	0.001628052	0.0016373	0.001643606	0.00164829	0.001651117
San Bernardino (SC)	Annual	LDT2	DSL	AllMYr	40	0.0330124	0.02692622	0.01916791	0.015623855	0.01445702	0.0132821	0.0127262	0.012566	0.011141	0.009123	0.0082255	0.00789214	0.00635206	0.0051852	0.0048155	0.004439	0.004171581	0.0040977	0.004111406	0.00409717	0.004060978
San Bernardino (SC)	Annual	LDT2	GAS	AllMYr	45	0.0013905	0.00133414	0.00129786	0.001281895	0.00128182	0.001292	0.0013083	0.001327	0.001347	0.001367	0.0013875	0.00141001	0.00143098	0.0014496	0.0014652	0.001479	0.001489516	0.001498	0.001503811	0.00150812	0.001510736
San Bernardino (SC)	Annual	LDT2	DSL	AllMYr	45	0.0301325	0.02464841	0.01765141	0.014466158	0.01343036	0.0123847	0.011899	0.01177	0.010492	0.008676	0.0078741	0.00758027	0.00619086	0.00514	0.0048105	0.004474	0.00423583	0.0041722	0.00418789	0.00417538	0.004143565
San Bernardino (SC)	Annual	LDT2	GAS	AllMYr	50	0.0013431	0.00128835	0.00125275	0.001236864	0.00123657	0.0012463	0.001262	0.00128	0.001299	0.001318	0.0013383	0.00136013	0.00138047	0.0013985	0.0014137	0.001427	0.001437367	0.0014456	0.001451327	0.00145556	0.00145815
San Bernardino (SC)	Annual	LDT2	DSL	AllMYr	50	0.0282076	0.02316771	0.01672921	0.013812927	0.01288189	0.0119384	0.0115122	0.011414	0.010248	0.008583	0.0078543	0.00759303	0.00631389	0.0053488	0.0050508	0.004745	0.004530257	0.0044757	0.004494597	0.00448352	0.004455352
San Bernardino (SC)	Annual	LDT2	GAS	AllMYr	55	0.0013648	0.00130935	0.00127311	0.001256933	0.00125678	0.0012669	0.0012831	0.001302	0.001321	0.001341	0.0013611	0.00138354	0.00140442	0.001423	0.0014386	0.001452	0.001462997	0.0014715	0.001477475	0.0014819	0.001484641
San Bernardino (SC)	Annual	LDT2	DSL	AllMYr	55	0.0271145	0.02239536	0.01635539	0.013639645	0.01279627	0.0119365	0.0115651	0.011501	0.010421	0.008866	0.0081956	0.00796294	0.00676213	0.0058594	0.0055869	0.005306	0.005109748	0.0050639	0.005087786	0.00507799	0.005053069
San Bernardino (SC)	Annual	LDT2	GAS	AllMYr	60	0.0014593	0.00140073	0.00136241	0.001345528	0.00134587	0.0013573	0.0013751	0.001395	0.001417	0.001438	0.0014598	0.00148416	0.00150683	0.001527	0.0015441	0.001559	0.001570673	0.00158	0.001586592	0.00159151	0.001594597
San Bernardino (SC)	Annual	LDT2	DSL	AllMYr	60	0.0268124	0.02231739	0.01654841	0.013982557	0.01321908	0.0124334	0.0121183	0.012096	0.011083	0.009608	0.008987	0.00878214	0.00763401	0.0067755	0.0065252	0.006264	0.00608498	0.0060488	0.006080099	0.00607157	0.006049878
San Bernardino (SC)	Annual	LDT2	GAS	AllMYr	65	0.0016423	0.00157778	0.00153568	0.001517601	0.00151894	0.0015327	0.0015535	0.001577	0.001602	0.001626	0.0016512	0.00167913	0.00170516	0.0017284	0.001748	0.001765	0.001778732	0.0017896	0.001797263	0.00180305	0.001806743
San Bernardino (SC)	Annual	LDT2	DSL	AllMYr	65	0.0273496	0.02300551	0.01740728	0.014958175	0.01427849	0.0135678	0.0133198	0.013356	0.0124	0.010983	0.0104076	0.0102341	0.00911823	0.0082905	0.008062	0.00782	0.007657552	0.0076335	0.007676239	0.00766917	0.007651188
San Bernardino (SC)	Annual	LDT2	GAS	AllMYr	70					0.00164584	0.0016613	0.0016844	0.00171	0.001737	0.001764	0.0017915	0.00182208	0.00185054	0.0018759	0.0018975	0.001916	0.001931176	0.0019431	0.001951591	0.00195801	0.001962128
San Bernardino (SC)	Annual	LDT2	DSL	AllMYr	70					0.016234	0.0156145	0.0154587	0.015581	0.014684	0.013314	0.0127904	0.01265847	0.01155965	0.0107547	0.0105522	0.010331	0.010189428	0.0101825	0.010243424	0.01023832	0.010225322
San Bernardino (SC)	Annual	LHD1	GAS	AllMYr	5	0.0080188	0.00729622	0.0066302	0.006008227	0.00540456	0.0048774	0.0044349	0.004032	0.003661	0.003325	0.0030229	0.00275947	0.00253034	0.0023282	0.0021393	0.001963	0.001813046	0.0016823	0.00156361	0.00143506	0.001331444
San Bernardino (SC)	Annual	LHD1	DSL	AllMYr	5	0.1040066	0.09985803	0.09573744	0.091377632	0.08695845	0.0829934	0.0801063	0.077429	0.074581	0.071974	0.0695122	0.06755397	0.06569444	0.0640282	0.0624175	0.060972	0.060445028	0.0599787	0.059530735	0.05890738	0.058164693
San Bernardino (SC)	Annual	LHD1	GAS	AllMYr	10	0.0064574	0.00587552	0.00533918	0.004838318	0.0043522	0.0039276	0.0035713	0.003247	0.002948	0.002677	0.0024343	0.00222215	0.00203764	0.0018748	0.0017227	0.00158	0.001460014	0.0013547	0.001259147	0.00115563	0.001072188
San Bernardino (SC)	Annual	LHD1	DSL	AllMYr	10	0.0919003	0.08823463	0.08459368	0.08074135	0.07683655	0.073333	0.070782	0.068416	0.0659	0.063596	0.061421	0.05969074	0.05804765	0.0565754	0.0551521	0.053875	0.053409272	0.0529973	0.0526014	0.0520506	0.051394366

San Bernardino (SC)	Annual	LHD1	GAS	AllMYr	15	0.0043199	0.00393061	0.00357181	0.003236742	0.00291154	0.0026275	0.0023891	0.002172	0.001972	0.001791	0.0016285	0.00148658	0.00136314	0.0012542	0.0011525	0.001057	9.77E-04	9.06E-04	8.42E-04	7.73E-04	7.17E-04
San Bernardino (SC)	Annual	LHD1	DSL	AllMYr	15	0.0729449	0.07003531	0.06714534	0.06408759	0.0609882	0.0582073	0.0561825	0.054305	0.052308	0.050479	0.0487523	0.0473789	0.04607471	0.0449061	0.0437764	0.042763	0.042393046	0.042066	0.041751809	0.04131462	0.040793734
San Bernardino (SC)	Annual	LHD1	GAS	AllMYr	20	0.0030124	0.00274092	0.00249072	0.002257069	0.00203029	0.0018322	0.001666	0.001515	0.001375	0.001249	0.0011356	0.00103663	9.51E-04	8.75E-04	8.04E-04	7.37E-04	6.81E-04	6.32E-04	5.87E-04	5.39E-04	5.00E-04
San Bernardino (SC)	Annual	LHD1	DSL	AllMYr	20	0.0591871	0.05682632	0.05448141	0.052000369	0.04948554	0.0472291	0.0455862	0.044062	0.042442	0.040958	0.0395574	0.03844301	0.03738481	0.0364366	0.03552	0.034697	0.034397516	0.0341322	0.033877219	0.03352248	0.033099847
San Bernardino (SC)	Annual	LHD1	GAS	AllMYr	25	0.0021896	0.00199231	0.00181045	0.001640608	0.00147577	0.0013318	0.001211	0.001101	1.00E-03	9.08E-04	8.25E-04	7.54E-04	6.91E-04	6.36E-04	5.84E-04	5.36E-04	4.95E-04	4.59E-04	4.27E-04	3.92E-04	3.64E-04
San Bernardino (SC)	Annual	LHD1	DSL	AllMYr	25	0.0490924	0.04713423	0.04518926	0.043131379	0.04104547	0.0391739	0.0378112	0.036547	0.035203	0.033972	0.0328106	0.03188632	0.03100859	0.0302221	0.0294618	0.02878	0.028530805	0.0283107	0.028099246	0.02780501	0.027454457
San Bernardino (SC)	Annual	LHD1	GAS	AllMYr	30	0.001659	0.00150952	0.00137173	0.001243049	0.00111816	0.0010091	9.18E-04	8.34E-04	7.57E-04	6.88E-04	6.25E-04	5.71E-04	5.24E-04	4.82E-04	4.43E-04	4.06E-04	3.75E-04	3.48E-04	3.23E-04	2.97E-04	2.75E-04
San Bernardino (SC)	Annual	LHD1	DSL	AllMYr	30	0.0416251	0.03996482	0.0383157	0.036570827	0.0348022	0.0332153	0.0320599	0.030988	0.029849	0.028805	0.0278199	0.02703621	0.02629199	0.0256252	0.0249805	0.024402	0.02419109	0.0240045	0.023825175	0.0235757	0.023278462
San Bernardino (SC)	Annual	LHD1	GAS	AllMYr	35	0.0013103	0.00119219	0.00108337	9.82E-04	8.83E-04	7.97E-04	7.25E-04	6.59E-04	5.98E-04	5.43E-04	4.94E-04	4.51E-04	4.13E-04	3.80E-04	3.50E-04	3.21E-04	2.96E-04	2.75E-04	2.55E-04	2.34E-04	2.18E-04
San Bernardino (SC)	Annual	LHD1	DSL	AllMYr	35	0.0360788	0.03463967	0.03321028	0.031697915	0.03016495	0.0287895	0.027788	0.026859	0.025871	0.024967	0.024113	0.02343375	0.02278869	0.0222107	0.0216519	0.021151	0.020967726	0.020806	0.020650566	0.02043433	0.020176701
San Bernardino (SC)	Annual	LHD1	GAS	AllMYr	40	0.0010787	9.81E-04	8.92E-04	8.08E-04	7.27E-04	6.56E-04	5.97E-04	5.42E-04	4.93E-04	4.47E-04	4.07E-04	3.71E-04	3.40E-04	3.13E-04	2.88E-04	2.64E-04	2.44E-04	2.26E-04	2.10E-04	1.93E-04	1.79E-04
San Bernardino (SC)	Annual	LHD1	DSL	AllMYr	40	0.031967	0.03069193	0.02942544	0.02808543	0.02672717	0.0255085	0.0246211	0.023798	0.022923	0.022122	0.021365	0.02076309	0.02019155	0.0196794	0.0191844	0.01874	0.018578118	0.0184348	0.018297105	0.01810551	0.017877245
San Bernardino (SC)	Annual	LHD1	GAS	AllMYr	45	9.26E-04	8.42E-04	7.65E-04	6.94E-04	6.24E-04	5.63E-04	5.12E-04	4.65E-04	4.23E-04	3.84E-04	3.49E-04	3.19E-04	2.92E-04	2.69E-04	2.47E-04	2.27E-04	2.09E-04	1.94E-04	1.80E-04	1.66E-04	1.54E-04
San Bernardino (SC)	Annual	LHD1	DSL	AllMYr	45	0.0289539	0.02779899	0.02665188	0.025438173	0.02420794	0.0231041	0.0223004	0.021555	0.020762	0.020036	0.0193511	0.01880602	0.01828835	0.0178245	0.0173761	0.016974	0.016826995	0.0166972	0.016572469	0.01639893	0.016192183
San Bernardino (SC)	Annual	LHD1	GAS	AllMYr	50	8.28E-04	7.53E-04	6.85E-04	6.20E-04	5.58E-04	5.04E-04	4.58E-04	4.16E-04	3.78E-04	3.43E-04	3.12E-04	2.85E-04	2.61E-04	2.40E-04	2.21E-04	2.03E-04	1.87E-04	1.74E-04	1.61E-04	1.48E-04	1.37E-04
San Bernardino (SC)	Annual	LHD1	DSL	AllMYr	50	0.0268081	0.0257388	0.02467671	0.023552948	0.02241389	0.0213919	0.0206477	0.019958	0.019224	0.018552	0.017917	0.01741231	0.016933	0.0165035	0.0160883	0.015716	0.015579946	0.0154598	0.015344282	0.01518361	0.01499218
San Bernardino (SC)	Annual	LHD1	GAS	AllMYr	55	7.72E-04	7.02E-04	6.38E-04	5.78E-04	5.20E-04	4.70E-04	4.27E-04	3.88E-04	3.52E-04	3.20E-04	2.91E-04	2.66E-04	2.44E-04	2.24E-04	2.06E-04	1.89E-04	1.75E-04	1.62E-04	1.51E-04	1.38E-04	1.28E-04
San Bernardino (SC)	Annual	LHD1	DSL	AllMYr	55	0.0253735	0.0243614	0.02335614	0.022292518	0.02121441	0.0202471	0.0195428	0.01889	0.018195	0.017559	0.0169582	0.01648049	0.01602684	0.0156203	0.0152274	0.014875	0.014746188	0.0146324	0.014523136	0.01437106	0.014189876
San Bernardino (SC)	Annual	LHD1	GAS	AllMYr	60	7.50E-04	6.83E-04	6.20E-04	5.62E-04	5.06E-04	4.56E-04	4.15E-04	3.77E-04	3.43E-04	3.11E-04	2.83E-04	2.58E-04	2.37E-04	2.18E-04	2.00E-04	1.84E-04	1.70E-04	1.57E-04	1.46E-04	1.34E-04	1.25E-04
San Bernardino (SC)	Annual	LHD1	DSL	AllMYr	60	0.0245498	0.02357059	0.02259797	0.021568871	0.02052576	0.0195898	0.0189084	0.018276	0.017604	0.016989	0.0164077	0.01594551	0.01550658	0.0151133	0.0147331	0.014392	0.014267506	0.0141574	0.014051694	0.01390456	0.013729253
San Bernardino (SC)	Annual	LHD1	GAS	AllMYr	65	7.60E-04	6.92E-04	6.28E-04	5.70E-04	5.12E-04	4.62E-04	4.20E-04	3.82E-04	3.47E-04	3.15E-04	2.87E-04	2.62E-04	2.40E-04	2.21E-04	2.03E-04	1.86E-04	1.72E-04	1.59E-04	1.48E-04	1.36E-04	1.26E-04
San Bernardino (SC)	Annual	LHD1	DSL	AllMYr	65	0.0242813	0.02331274	0.02235075	0.021332916	0.02030122	0.0193755	0.0187015	0.018076	0.017412	0.016803	0.0162282	0.01577107	0.01533694	0.014948	0.0145719	0.014234	0.014111423	0.0140026	0.013897973	0.01375245	0.01357906
San Bernardino (SC)	Annual	LHD1	GAS	AllMYr	70					5.41E-04	4.88E-04	4.44E-04	4.04E-04	3.67E-04	3.33E-04	3.03E-04	2.76E-04	2.53E-04	2.33E-04	2.14E-04	1.96E-04	1.81E-04	1.68E-04	1.57E-04	1.44E-04	1.33E-04
San Bernardino (SC)	Annual	LHD1	DSL	AllMYr	70					0.02052576	0.0195898	0.0189084	0.018276	0.017604	0.016989	0.0164077	0.01594551	0.01550658	0.0151133	0.0147331	0.014392	0.014267507	0.0141574	0.014051696	0.01390456	0.013729255
San Bernardino (SC)	Annual	LHD2	GAS	AllMYr	5	0.0066465	0.00585711	0.00516285	0.004451811	0.00390907	0.0034468	0.0030552	0.002735	0.002432	0.002169	0.0019375	0.00175187	0.00159923	0.0014851	0.0013762	0.001295	0.001220864	0.0011619	0.00111467	0.00107117	0.001030324
San Bernardino (SC)	Annual	LHD2	DSL	AllMYr	5	0.1016088	0.09769669	0.09411357	0.089703201	0.08561026	0.0818961	0.078292	0.075211	0.072106	0.069457	0.0659382	0.06370229	0.06174774	0.0597276	0.0583654	0.057239	0.057199489	0.0568926	0.056447561	0.05533369	0.05447453
San Bernardino (SC)	Annual	LHD2	GAS	AllMYr	10	0.0053523	0.00471662	0.00415755	0.003584964	0.0031479	0.0027757	0.0024603	0.002203	0.001959	0.001747	0.0015603	0.00141075	0.00128783	0.001196	0.0011082	0.001043	9.83E-04	9.36E-04	8.98E-04	8.63E-04	8.30E-04
San Bernardino (SC)	Annual	LHD2	DSL	AllMYr	10	0.0897816	0.08632487	0.08315884	0.079261816	0.07564529	0.0723634	0.0691789	0.066457	0.063713	0.061372	0.0582631	0.05628739	0.05456035	0.0527753	0.0515717	0.050576	0.050541512	0.0502704	0.049877106	0.04889288	0.048133737
San Bernardino (SC)	Annual	LHD2	GAS	AllMYr	15	0.0035806	0.00315533	0.00278132	0.002398272	0.00210589	0.0018569	0.0016459	0.001474	0.00131	0.001169	0.0010438	9.44E-04	8.62E-04	8.00E-04	7.41E-04	6.98E-04	6.58E-04	6.26E-04	6.00E-04	5.77E-04	5.55E-04
San Bernardino (SC)	Annual	LHD2	DSL	AllMYr	15	0.0712632	0.06851945	0.06600645	0.062913228	0.06004264	0.0574377	0.05491	0.052749	0.050571	0.048713	0.0462457	0.04467752	0.0433067	0.0418899	0.0409345	0.040145	0.040116792	0.0399016	0.039589425	0.03880821	0.038205647
San Bernardino (SC)	Annual	LHD2	GAS	AllMYr	20	0.0024969	0.0022003	0.00193949	0.001672381	0.00146849	0.0012948	0.0011477	0.001028	9.14E-04	8.15E-04	7.28E-04	6.58E-04	6.01E-04	5.58E-04	5.17E-04	4.87E-04	4.59E-04	4.36E-04	4.19E-04	4.02E-04	3.87E-04
San Bernardino (SC)	Annual	LHD2	DSL	AllMYr	20	0.0578226	0.05559636	0.05355732	0.051047502	0.04871832	0.0466047	0.0445537	0.042801	0.041033	0.039526	0.0375235	0.03625113	0.03513885	0.0339892	0.033214	0.032573	0.03255058	0.0323759	0.032122674	0.0314888	0.030999881
San Bernardino (SC)	Annual	LHD2	GAS	AllMYr	25	0.0018149	0.00159934	0.00140977	0.001215613	0.00106741	9.41E-04	8.34E-04	7.47E-04	6.64E-04	5.92E-04	5.29E-04	4.78E-04	4.37E-04	4.06E-04	3.76E-04	3.54E-04	3.33E-04	3.17E-04	3.04E-04	2.92E-04	2.81E-04
San Bernardino (SC)	Annual	LHD2	DSL	AllMYr	25	0.0479606	0.04611405	0.04442278	0.042341028	0.04040911	0.038656	0.0369548	0.035501	0.034035	0.032784	0.0311237	0.03006827	0.0291457	0.0281922	0.0275492	0.027018	0.026998869	0.026854	0.026643949	0.02611818	0.025712657
San Bernardino (SC)	Annual	LHD2	GAS	AllMYr	30	0.0013751	0.00121178	0.00106815	9.21E-04	8.09E-04	7.13E-04	6.32E-04	5.66E-04	5.03E-04	4.49E-04	4.01E-04	3.62E-04	3.31E-04	3.07E-04	2.85E-04	2.68E-04	2.53E-04	2.40E-04	2.31E-04	2.22E-04	2.13E-04
San Bernardino (SC)	Annual	LHD2	DSL	AllMYr	30	0.0406655	0.03909982	0.0376658	0.035900691	0.03426263	0.0327762	0.0313337	0.030101	0.028858	0.027798	0.0263896	0.0254947	0.02471246	0.023904	0.0233588	0.022908	0.022892174	0.0227694	0.022591238	0.02214545	0.021801601
San Bernardino (SC)	Annual	LHD2	GAS	AllMYr	35	0.001086	9.57E-04	8.44E-04	7.27E-04	6.39E-04	5.63E-04	4.99E-04	4.47E-04	3.97E-04	3.54E-04	3.17E-04	2.86E-04	2.61E-04	2.43E-04	2.25E-04	2.12E-04	1.99E-04	1.90E-04	1.82E-04	1.75E-04	1.68E-04
San Bernardino (SC)	Annual	LHD2	DSL	AllMYr	35	0.035247	0.03388992	0.03264699	0.031117069	0.02969727	0.0284089	0.0271586	0.02609	0.025013	0.024094	0.0228733	0.02209764	0.02141962	0.0207188	0.0202463	0.019856	0.019841882	0.0197354	0.019581048	0.01919466	0.018896623
San Bernardino (SC)	Annual	LHD2	GAS	AllMYr	40	8.94E-04	7.88E-04	6.94E-04	5.99E-04	5.26E-04	4.64E-04	4.11E-04	3.68E-04	3.27E-04	2.92E-04	2.61E-04	2.36E-04	2.15E-04	2.00E-04	1.85E-04	1.74E-04	1.64E-04	1.56E-04	1.50E-04	1.44E-04	1.39E-04
San Bernardino (SC)	Annual	LHD2	DSL	AllMYr	40	0.03123	0.03002763	0.02892634	0.027570783	0.02631279	0.0251712	0.0240635	0.023117	0.022162	0.021348	0.0202665	0.01957926	0.01897851	0.0183576	0.0179389	0.017593	0.017580585	0.0174863	0.017349473	0.01700712	0.016743053
San Bernardino (SC)	Annual	LHD2	GAS	AllMYr	45	7.67E-04	6.76E-04	5.96E-04	5.14E-04	4.51E-04	3.98E-04	3.53E-04	3.16E-04	2.81E-04	2.50E-04	2.24E-04	2.02E-04	1.85E-04	1.71E-04	1.59E-04	1.50E-04	1.41E-04	1.34E-04	1.29E-04	1.24E-04	1.19E-04
San Bernardino (SC)	Annual	LHD2	DSL	AllMYr	45	0.0282864	0.0271973	0.02619982	0.024972034	0.02383262	0.0227987	0.0217953	0.020938	0.020073	0.019336	0.0183562	0.01773377	0.01718965	0.0166273	0.016248	0.015934	0.015923487	0.0158381	0.015714159	0.01540407	0.015164898
San Bernardino (SC)	Annual	LHD2	GAS	AllMYr	50	6.86E-04	6.05E-04	5.33E-04	4.60E-04	4.04E-04	3.56E-04	3.15E-04	2.82E-04	2.51E-04	2.24E-04	2.00E-04	1.81E-04	1.65E-04	1.53E-04	1.42E-04	1.34E-04	1.26E-04	1.20E-04	1.15E-04	1.11E-04	1.06E-04
San Bernardino (SC)	Annual	LHD2	DSL	AllMYr	50	0.0261901	0.02518171	0.02425815	0.023121358	0.02206639	0.021109	0.0201801	0.019386	0.018586	0.017903	0.0169958	0.01641952	0.01591572	0.015395	0.0150439	0.014754	0.014743395	0.0146643	0.014549582	0.01426248	0.014041027
San Bernardino (SC)	Annual	LHD2	GAS	AllMYr	55	6.40E-04	5.64E-04	4.97E-04	4.29E-04	3.76E-04	3.32E-04	2.94E-04	2.63E-04	2.34E-04	2.09E-04	1.87E-04	1.69E-04	1.54E-04	1.43E-04	1.32E-04	1.25E-04	1.18E-04	1.12E-04	1.07E-04	1.03E-04	9.92E-05
San Bernardino (SC)	Annual	LHD2	DSL	AllMYr	55	0.0247885	0.02383411	0.02295998	0.02188402	0.02088551	0.0199794	0.0191001	0.018349	0.017591	0.016945	0.0160863	0.01554083	0.015064	0.0145712	0.0142388	0.013964	0.013954406	0.0138795	0.013770965	0.01349922	0.013289624
San Bernardino (SC)	Annual	LHD2	GAS	AllMYr	60	6.22E-04	5.48E-04	4.83E-04	4.17E-04	3.66E-04	3.23E-04	2.86E-04	2.56E-04	2.28E-04	2.03E-04	1.81E-04	1.64E-04	1.50E-04	1.39E-04	1.29E-04	1.21E-04	1.14E-04	1.09E-04	1.04E-04	1.00E-04	9.64E-05
San Bernardino (SC)	Annual	LHD2	DSL	AllMYr	60	0.0239838	0.02306043	0.02221467	0.021173637	0.02020753	0.0193308	0.0184801	0.017753	0.01702	0.016395	0.0155641	0.01503635	0.014575	0.0140982	0.0137766	0.013511	0.013501427	0.013429	0.01332394	0.01306102	0.012858224
San Bernardino (SC)	Annual	LHD2	GAS	AllMYr	65	6.30E-04	5.55E-04	4.89E-04	4.22E-04	3.71E-04	3.27E-04	2.90E-04	2.59E-04	2.31E-04	2.06E-04	1.84E-04	1.66E-04	1.52E-04	1.41E-04	1.30E-04	1.23E-04	1.16E-04	1.10E-04	1.06E-04	1.02E-04	9.77E-05
San Bernardino (SC)	Annual	LHD2	DSL	AllMYr	65	0.0237215	0.02280815	0.02197164	0.020942003	0.01998647	0.0191194	0.018278	0.017559	0.016834	0.016215	0.0153939	0.01487186	0.01441555	0.0139439	0.0136259	0.013363	0.013353725	0.0132821	0.01317818	0.01291814	0.01271756
San Bernardino (SC)	Annual	LHD2	GAS	AllMYr	70					3.91E-04	3.45E-04	3.06E-04	2.74E-04	2.43E-04	2.17E-04	1.94E-04	1.75E-04	1.60E-04	1.49E-04	1.38E-04	1.30E-04	1.22E-04	1.16E-04	1.12E-04	1.07E-04	1.03E-04
San Bernardino (SC)	Annual	LHD2	DSL	AllMYr	70					0.02020753	0.0193308	0.0184801	0.017753	0.01702	0.016395	0.0155641	0.01503636	0.014575	0.0140982	0.0137766	0.013511	0.013501427	0.013429	0.013323941	0.01306102	0.012858225
San Bernardino (SC)	Annual	MCY	GAS	AllMYr	5	9.93E-04	8.69E-04	7.72E-04	6.98E-04	6.40E-04	5.96E-04	5.65E-04	5.42E-04	5.23E-04	5.07E-04	4.97E-04	4.89E-04	4.82E-04	4.78E-04	4.75E-04	4.72E-04	4.70E-04	4.69E-04	4.69E-04	4.68E-04	4.68E-04
San Bernardino (SC)	Annual	MCY	GAS	AllMYr	10	8.68E-04	7.59E-04	6.73E-04	6.07E-04	5.56E-04	5.16E-04	4.89E-04	4.68E-04	4.51E-04	4.38E-04	4.28E-04	4.21E-04	4.16E-04	4.12E-04	4.09E-04	4.07E-04	4.05E-04	4.04E-04	4.03E-04	4.03E-04	4.02E-04
San Bernardino (SC)	Annual	MCY	GAS	AllMYr	15	6.89E-04	6.00E-04	5.30E-04	4.76E-04	4.35E-04	4.02E-04	3.80E-04	3.63E-04	3.50E-04	3.39E-04	3.31E-04	3.25E-04	3.21E-04	3.17E-04	3.15E-04	3.13E-04	3.12E-04	3.11E-04	3.10E-04	3.10E-04	3.10E-04
San Bernardino (SC)	Annual	MCY	GAS	AllMYr	20	5.73E-04	4.98E-04	4.38E-04	3.93E-04	3.57E-04	3.30E-04	3.11E-04	2.97E-04	2.85E-04	2.76E-04	2.69E-04	2.64E-04	2.60E-04	2.58E-04	2.56E-04	2.54E-04	2.53E-04	2.52E-04	2.52E-04	2.51E-04	2.51E-04
San Bernardino (SC)	Annual	MCY	GAS	AllMYr	25	5.01E-04	4.33E-04	3.81E-04	3.40E-04	3.09E-04	2.84E-04	2.68E-04	2.55E-04	2.45E-04	2.36E-04	2.30E-04	2.26E-04	2.23E-04	2.20E-04	2.18E-04	2.17E-04	2.16E-04	2.15E-04	2.15E-04	2.14E-04	2.14E-04
San Bernardino (SC)	Annual	MCY	GAS	AllMYr	30	4.58E-04	3.96E-04	3.47E-04	3.10E-04	2.80E-04	2.58E-04	2.42E-04	2.30E-04	2.21E-04	2.13E-04	2.07E-04	2.03E-04	2.00E-04	1.98E-04	1.96E-04	1.95E-04	1.94E-04	1.93E-04	1.93E-04	1.93E-04	1.92E-04
San Bernardino (SC)	Annual	MCY	GAS	AllMYr	35	4.40E-04	3.80E-04	3.32E-04	2.96E-04	2.67E-04	2.45E-04	2.30E-04	2.19E-04	2.09E-04	2.02E-04	1.96E-04	1.92E-04	1.89E-04	1.87E-04	1.85E-04	1.84E-04	1.83E-04	1.83E-04	1.82E-04	1.82E-04	1.82E-04
San Bernardino (SC)	Annual	MCY	GAS	AllMYr	40	4.43E-04	3.82E-04	3.33E-04	2.97E-04	2.68E-04	2.45E-04	2.30E-04	2.18E-04	2.09E-04	2.01E-04	1.96E-04	1.92E-04	1.88E-04	1.86E-04	1.84E-04	1.83E-04	1.82E-04	1.82E-04	1.81E-04	1.81E-04	1.81E-04
San Bernardino (SC)	Annual	MCY	GAS	AllMYr	45	4.68E-04	4.03E-04	3.51E-04	3.12E-04	2.81E-04	2.57E-04	2.41E-04	2.29E-04	2.18E-04	2.10E-04	2.05E-04	2.00E-04	1.97E-04	1.95E-04	1.93E-04	1.91E-04	1.90E-04	1.90E-04	1.89E-04	1.89E-04	1.89E-04
San Bernardino (SC)	Annual	MCY	GAS	AllMYr	50	5.18E-04	4.45E-04	3.88E-04	3.44E-04	3.10E-04	2.84E-04	2.66E-04	2.52E-04	2.40E-04	2.32E-04	2.25E-04	2.20E-04	2.17E-04	2.14E-04	2.12E-04	2.10E-04	2.09E-04	2.09E-04	2.08E-04	2.08E-04	2.08E-04
San Bernardino (SC)	Annual	MCY	GAS	AllMYr	55	6.00E-04	5.16E-04	4.50E-04	3.99E-04	3.59E-04	3.28E-04	3.07E-04	2.91E-04	2.78E-04	2.68E-04	2.60E-04	2.55E-04	2.50E-04	2.47E-04	2.45E-04	2.43E-04	2.42E-04	2.41E-04	2.40E-04	2.40E-04	2.40E-04
San Bernardino (SC)	Annual	MCY	GAS	AllMYr	60	7.30E-04	6.27E-04	5.46E-04	4.85E-04	4.36E-04	3.99E-04	3.74E-04	3.54E-04	3.38E-04	3.25E-04	3.16E-04	3.09E-04	3.04E-04	3.00E-04	2.97E-04	2.95E-04	2.94E-04	2.93E-04	2.92E-04	2.92E-04	2.91E-04
San Bernardino (SC)	Annual	MCY	GAS	AllMYr	65	9.29E-04	7.99E-04	6.96E-04	6.18E-04	5.56E-04	5.09E-04	4.77E-04	4.52E-04	4.31E-04	4.15E-04	4.04E-04	3.95E-04	3.88E-04	3.83E-04	3.80E-04	3.77E-04	3.75E-04	3.74E-04	3.73E-04	3.72E-04	3.72E-04
San Bernardino (SC)	Annual	MCY	GAS	AllMYr	70					7.45E-04	6.81E-04	6.38E-04	6.05E-04	5.78E-04	5.56E-04	5.41E-04	5.30E-04	5.21E-04	5.14E-04	5.10E-04	5.06E-04	5.03E-04	5.02E-04	5.01E-04	5.00E-04	4.99E-04
San Bernardino (SC)	Annual	MDV	GAS	AllMYr	5	0.0128248	0.01264229	0.01255848	0.012539506	0.01252004	0.0125419	0.0125633	0.01259	0.012637	0.012688	0.0127638	0.01284877	0.01294116	0.0130309	0.0131079	0.013171	0.013224899	0.0132654	0.013295881	0.01331987	0.013340328
San Bernardino (SC)	Annual	MDV	DSL	AllMYr	5	0.0883803	0.07425977	0.06344937	0.0553895	0.0496621	0.0461815	0.040013	0.03459	0.028382	0.023851	0.0204723	0.01848418	0.01506832	0.0129714	0.0116569	0.011263	0.011166618	0.0111013	0.011028872	0.01099315	0.010962975
San Bernardino (SC)	Annual	MDV	GAS	AllMYr	10	0.0082276	0.00809544	0.00802668	0.008000301	0.0079729	0.0079739	0.0079763	0.007982	0.008002	0.008026	0.008068	0.00811724	0.00817148	0.0082243	0.0082693	0.008306	0.008336381	0.0083594	0.008376003	0.00838869	0.008399747
San Bernardino (SC)	Annual	MDV	DSL	AllMYr	10	0.0778499	0.06535705	0.05579052	0.04865584	0.04358402	0.0404984	0.0350378	0.030237	0.024743	0.020733	0.0177422	0.01598139	0.01295868	0.011102	0.0099364	0.009585	0.00949712	0.0094382	0.009375241	0.00934337	0.009316093
San Bernardino (SC)	Annual	MDV	GAS	AllMYr	15	0.0055637	0.00546466	0.00540858	0.005381688	0.00535362	0.005346	0.0053404	0.005337	0.005344	0.005354	0.0053788	0.00540882	0.00544235	0.0054751	0.0055027	0.005525	0.005543165	0.0055568	0.005566281	0.00557318	0.005579373
San Bernardino (SC)	Annual	MDV	DSL	AllMYr	15	0.0615329	0.05159987	0.04399108	0.038314142	0.0342766	0.0318166	0.0274715	0.023651	0.019282	0.016092	0.0137118	0.01230984	0.00990583	0.0084279	0.0074985	0.007215	0.007143282	0.0070953	0.007046363	0.00702074	0.006998431
San Bernardino (SC)	Annual	MDV	GAS	AllMYr	20	0.0039633	0.00388641	0.00384022	0.003815173	0.00378893	0.003778	0.0037694	0.003762	0.003763	0.003767	0.0037814	0.00380072	0.00382263	0.0038441	0.003862	0.003876	0.003887735	0.0038963	0.003901913	0.00390578	0.003909396
San Bernardino (SC)	Annual	MDV	DSL	AllMYr	20	0.0498374	0.04177189	0.03559279	0.030981743	0.02770159	0.0257018	0.0221724	0.019069	0.015521	0.01293	0.010997	0.00985792	0.00790567	0.006705	0.0059495	0.005718	0.005658952	0.0056196	0.005580251	0.00555935	0.005541017
San Bernardino (SC)	Annual	MDV	GAS	AllMYr	25	0.0029723	0.00291051	0.00287173	0.002849063	0.00282522	0.0028135	0.0028038	0.002795	0.002793	0.002793	0.0028028	0.00281596	0.00283114	0.002846	0.0028584	0.002868	0.002875801	0.0028815	0.002885032	0.00288729	0.002889516
San Bernardino (SC)	Annual	MDV	DSL	AllMYr	25	0.0413553	0.03466664	0.0295425	0.025718857	0.02299898	0.021341	0.0184143	0.015841	0.012899	0.01075	0.0091471	0.00820265	0.00658369	0.0055881	0.0049617	0.00477	0.004721212	0.0046886	0.004655946	0.00463863	0.004623472
San Bernardino (SC)	Annual	MDV	GAS	AllMYr	30	0.0023457	0.00229417	0.00226081	0.00224034	0.00221872	0.002207	0.0021974	0.002188	0.002185	0.002184	0.0021898	0.00219946	0.00221069	0.0022217	0.0022308	0.002238	0.002243433	0.0022475	0.002249899	0.00225131	0.002252782
San Bernardino (SC)	Annual	MDV	DSL	AllMYr	30	0.0351603	0.02949528	0.02515623	0.021919283	0.01961747	0.0182157	0.0157381	0.01356	0.011068	0.009249	0.0078921	0.00709287	0.00572192	0.0048793	0.0043498	0.004189	0.004148235	0.0041211	0.004092962	0.0040784	0.004065789
San Bernardino (SC)	Annual	MDV	GAS	AllMYr	35	0.0019473	0.00190266	0.00187314	0.001854457	0.00183463	0.0018233	0.0018139	0.001805	0.001801	0.001799	0.0018033	0.00181086	0.00181976	0.0018285	0.0018357	0.001841	0.00184559	0.0018488	0.001850541	0.00185152	0.001852603
San Bernardino (SC)	Annual	MDV	DSL	AllMYr	35	0.0306356	0.02573584	0.02198449	0.019187403	0.0171996	0.0159913	0.0138506	0.011969	0.009814	0.008242	0.0070694	0.00637932	0.00519398	0.0044662	0.0040098	0.003873	0.00383922	0.0038165	0.003791422	0.003779	0.003768478
San Bernardino (SC)	Annual	MDV	GAS	AllMYr	40	0.0017	0.00165986	0.00163292	0.001615551	0.00159701	0.0015861	0.0015771	0.001568	0.001564	0.001561	0.0015651	0.00157145	0.00157904	0.0015866	0.0015926	0.001597	0.00160107	0.0016038	0.001605268	0.00160607	0.001606974
San Bernardino (SC)	Annual	MDV	DSL	AllMYr	40	0.0273691	0.0230425	0.01973206	0.01726576	0.01551476	0.0144535	0.0125662	0.010907	0.009006	0.007619	0.006585	0.00597741	0.00493129	0.0042901	0.0038894	0.003772	0.003743897	0.0037248	0.003701701	0.00369098	0.003682224
San Bernardino (SC)	Annual	MDV	GAS	AllMYr	45	0.0015606	0.00152302	0.00149763	0.001481099	0.00146334	0.0014528	0.0014439	0.001435	0.001431	0.001428	0.0014314	0.00143732	0.00144429	0.0014512	0.0014568	0.001461	0.00146468	0.0014672	0.001468609	0.0014694	0.001470267
San Bernardino (SC)	Annual	MDV	DSL	AllMYr	45	0.02509	0.02119087	0.01821035	0.01599257	0.01442033	0.0134717	0.0117747	0.010283	0.008571	0.007323	0.0063938	0.00584848	0.00490648	0.0043306	0.0039726	0.003871	0.003848341	0.0038325	0.00381033	0.003801	0.003793828
San Bernardino (SC)	Annual	MDV	GAS	AllMYr	50	0.0015064	0.00146985	0.00144509	0.001428942	0.00141145	0.001401	0.0013923	0.001384	0.001379	0.001377	0.0013798	0.00138565	0.00139255	0.0013994	0.0014049	0.001409	0.00141289	0.0014154	0.00141703	0.00141794	0.001418886
San Bernardino (SC)	Annual	MDV	DSL	AllMYr	50	0.0236304	0.02004635	0.01731051	0.015278433	0.01384095	0.0129793	0.0114248	0.010058	0.008486	0.007342	0.0064911	0.00599284	0.00512799	0.0046012	0.0042763	0.004189	0.004171328	0.0041586	0.00413641	0.00412827	0.004122645
San Bernardino (SC)	Annual	MDV	GAS	AllMYr	55	0.0015292	0.00149223	0.00146721	0.001450996	0.00143326	0.0014228	0.001414	0.001406	0.001401	0.001398	0.0014018	0.0014081	0.00141544	0.0014227	0.0014285	0.001433	0.00143734	0.0014402	0.00144204	0.00144319	0.001444339
San Bernardino (SC)	Annual	MDV	DSL	AllMYr	55	0.0229059	0.01954906	0.01699177	0.015097276	0.01376135	0.0129683	0.0115196	0.010246	0.008776	0.007709	0.0069153	0.00645279	0.00564414	0.0051542	0.0048555	0.004781	0.004769815	0.0047604	0.004737138	0.00473012	0.004726157
San Bernardino (SC)	Annual	MDV	GAS	AllMYr	60	0.00163	0.00159404	0.00156785	0.00155108	0.00153254	0.0015218	0.0015128	0.001504	0.0015	0.001497	0.0015013	0.00150852	0.00151685	0.0015251	0.0015317	0.001537	0.00154207	0.0015455	0.001547812	0.00154938	0.001550856
San Bernardino (SC)	Annual	MDV	DSL	AllMYr	60	0.0229123	0.01971343	0.01728377	0.01549082	0.01423247	0.0134965	0.0121261	0.010922	0.009525	0.008512	0.0077621	0.00732713	0.00655849	0.0060965	0.0058198	0.00576	0.005755786	0.0057503	0.005724688	0.00571884	0.005716905
San Bernardino (SC)	Annual	MDV	GAS	AllMYr	65	0.0018351	0.00179232	0.00176385	0.001746012	0.00172602	0.0017148	0.0017055	0.001696	0.001692	0.00169	0.0016951	0.00170399	0.00171405	0.001724	0.001732	0.001739	0.001744934	0.0017493	0.00175236	0.00175457	0.001756577
San Bernardino (SC)	Annual	MDV	DSL	AllMYr	65	0.0237388	0.02064543	0.01830646	0.016590636	0.01539518	0.0147122	0.0134017	0.012251	0.010904	0.009933	0.009216	0.0088038	0.00806334	0.0076237	0.0073678	0.007326	0.007331538	0.0073313	0.007301523	0.00729709	0.007297906

San Bernardino (SC)	Annual	MDV	GAS	AllMYr	70					0.00186793	0.0018564	0.0018468	0.001837	0.001833	0.001831	0.0018374	0.00184745	0.00185874	0.00187	0.0018789	0.001887	0.001893654	0.0018987	0.00190226	0.00190492	0.001907292
San Bernardino (SC)	Annual	MDV	DSL	AllMYr	70					0.01753381	0.0169103	0.0156525	0.014548	0.01324	0.012304	0.0116154	0.01122547	0.01050634	0.0100877	0.0098553	0.009839	0.009859175	0.0098667	0.009829938	0.00982748	0.009832375
San Bernardino (SC)	Annual	MH	GAS	AllMYr	5	0.0127242	0.01092305	0.0093452	0.00797936	0.00684542	0.005836	0.0048822	0.00414	0.003518	0.002988	0.0025555	0.0022081	0.00192425	0.0016798	0.0014722	0.00132	0.001198377	0.0011132	0.001048772	0.00100296	9.72E-04
San Bernardino (SC)	Annual	MH	DSL	AllMYr	5	0.49911	0.47040679	0.44594717	0.422994461	0.39640557	0.3692759	0.3329551	0.298467	0.269103	0.243711	0.2216266	0.20203248	0.18247054	0.1630647	0.1440604	0.127818	0.112865191	0.1004844	0.089862391	0.08114996	0.073654998
San Bernardino (SC)	Annual	MH	GAS	AllMYr	10	0.0102466	0.00879614	0.00752552	0.006425636	0.0055125	0.0046996	0.0039316	0.003334	0.002833	0.002406	0.0020579	0.00177814	0.00154956	0.0013527	0.0011855	0.001063	9.65E-04	8.96E-04	8.45E-04	8.08E-04	7.82E-04
San Bernardino (SC)	Annual	MH	DSL	AllMYr	10	0.4214698	0.39756273	0.37723113	0.358010029	0.33588725	0.313308	0.2831512	0.254565	0.230211	0.209119	0.1905637	0.17403979	0.15747508	0.1411446	0.1252826	0.111667	0.098950046	0.0883513	0.079207641	0.07171739	0.065316551
San Bernardino (SC)	Annual	MH	GAS	AllMYr	15	0.0068548	0.00588445	0.00503443	0.004298627	0.00368775	0.003144	0.0026301	0.00223	0.001895	0.00161	0.0013767	0.00118954	0.00103663	9.05E-04	7.93E-04	7.11E-04	6.46E-04	6.00E-04	5.65E-04	5.40E-04	5.23E-04
San Bernardino (SC)	Annual	MH	DSL	AllMYr	15	0.2947205	0.27860419	0.26497296	0.251824918	0.2369535	0.2217629	0.201607	0.182591	0.166361	0.152248	0.1394424	0.1279281	0.11626209	0.1049453	0.0941906	0.084851	0.075795076	0.0681229	0.061413571	0.05593454	0.051328445
San Bernardino (SC)	Annual	MH	GAS	AllMYr	20	0.00478	0.00410339	0.00351065	0.002997551	0.00257157	0.0021924	0.0018341	0.001555	0.001322	0.001122	9.60E-04	8.30E-04	7.23E-04	6.31E-04	5.53E-04	4.96E-04	4.50E-04	4.18E-04	3.94E-04	3.77E-04	3.65E-04
San Bernardino (SC)	Annual	MH	DSL	AllMYr	20	0.2060127	0.19528487	0.18628003	0.177351478	0.16749022	0.1574057	0.1441474	0.131724	0.121092	0.111794	0.1029938	0.09498124	0.08675298	0.0789339	0.0717166	0.065349	0.058873858	0.0532781	0.048306715	0.04426138	0.04092537
San Bernardino (SC)	Annual	MH	GAS	AllMYr	25	0.0034745	0.00298265	0.0025518	0.002178846	0.00186921	0.0015936	0.0013331	0.00113	9.61E-04	8.16E-04	6.98E-04	6.03E-04	5.25E-04	4.59E-04	4.02E-04	3.60E-04	3.27E-04	3.04E-04	2.86E-04	2.74E-04	2.65E-04
San Bernardino (SC)	Annual	MH	DSL	AllMYr	25	0.1701897	0.16161219	0.15444661	0.147211098	0.13934112	0.1312855	0.1207588	0.110942	0.102524	0.095135	0.0879439	0.08134331	0.07450956	0.0680968	0.0622875	0.05711	0.051685132	0.0469416	0.042689184	0.03923558	0.036418849
San Bernardino (SC)	Annual	MH	GAS	AllMYr	30	0.0026325	0.00225988	0.00193344	0.001650859	0.00141626	0.0012074	0.0010101	8.57E-04	7.28E-04	6.18E-04	5.29E-04	4.57E-04	3.98E-04	3.48E-04	3.05E-04	2.73E-04	2.48E-04	2.30E-04	2.17E-04	2.08E-04	2.01E-04
San Bernardino (SC)	Annual	MH	DSL	AllMYr	30	0.151446	0.14408616	0.13795288	0.131656489	0.12488743	0.1179462	0.1089194	0.100547	0.093344	0.087008	0.0806779	0.07482045	0.06871761	0.0630474	0.057995	0.053453	0.048561074	0.0442362	0.040330636	0.03716209	0.034601239
San Bernardino (SC)	Annual	MH	GAS	AllMYr	35	0.0020791	0.00178481	0.00152699	0.001303816	0.00111853	9.54E-04	7.98E-04	6.76E-04	5.75E-04	4.88E-04	4.18E-04	3.61E-04	3.14E-04	2.74E-04	2.41E-04	2.16E-04	1.96E-04	1.82E-04	1.71E-04	1.64E-04	1.59E-04
San Bernardino (SC)	Annual	MH	DSL	AllMYr	35	0.1406557	0.13413793	0.12870721	0.123032225	0.11698959	0.1107736	0.102724	0.09531	0.088898	0.083256	0.0774507	0.07202797	0.06634672	0.0611148	0.0565317	0.052376	0.047765053	0.0436387	0.039886409	0.0368435	0.034405483
San Bernardino (SC)	Annual	MH	GAS	AllMYr	40	0.0017116	0.00146934	0.00125709	0.001073362	9.21E-04	7.85E-04	6.57E-04	5.57E-04	4.73E-04	4.02E-04	3.44E-04	2.97E-04	2.59E-04	2.26E-04	1.98E-04	1.78E-04	1.61E-04	1.50E-04	1.41E-04	1.35E-04	1.31E-04
San Bernardino (SC)	Annual	MH	DSL	AllMYr	40	0.1378187	0.13176752	0.12670966	0.12133829	0.11564758	0.1097677	0.1021724	0.095232	0.089187	0.083878	0.0782625	0.07296587	0.0673969	0.0622992	0.0578974	0.053879	0.049297048	0.0451491	0.041356497	0.03827982	0.035831569
San Bernardino (SC)	Annual	MH	GAS	AllMYr	45	0.0014688	0.00126088	0.00107875	9.21E-04	7.90E-04	6.74E-04	5.64E-04	4.78E-04	4.06E-04	3.45E-04	2.95E-04	2.55E-04	2.22E-04	1.94E-04	1.70E-04	1.52E-04	1.38E-04	1.29E-04	1.21E-04	1.16E-04	1.12E-04
San Bernardino (SC)	Annual	MH	DSL	AllMYr	45	0.1429349	0.13697489	0.13196016	0.126574677	0.12086142	0.1149285	0.1072648	0.100312	0.094211	0.088875	0.0831132	0.07763414	0.07186813	0.0666004	0.0620922	0.057963	0.053157077	0.0487674	0.044740908	0.04147104	0.038879515
San Bernardino (SC)	Annual	MH	GAS	AllMYr	50	0.0013138	0.00112785	9.65E-04	8.24E-04	7.07E-04	6.03E-04	5.04E-04	4.27E-04	3.63E-04	3.09E-04	2.64E-04	2.28E-04	1.99E-04	1.73E-04	1.52E-04	1.36E-04	1.24E-04	1.15E-04	1.08E-04	1.04E-04	1.00E-04
San Bernardino (SC)	Annual	MH	DSL	AllMYr	50	0.1560045	0.14976006	0.14445878	0.138741378	0.13263109	0.126256	0.118001	0.110551	0.103969	0.098246	0.0920028	0.08603278	0.07976042	0.0740185	0.0691161	0.064627	0.059345132	0.0544935	0.050039635	0.04641717	0.0435493
San Bernardino (SC)	Annual	MH	GAS	AllMYr	55	0.001225	0.0010516	9.00E-04	7.68E-04	6.59E-04	5.62E-04	4.70E-04	3.99E-04	3.39E-04	2.88E-04	2.46E-04	2.13E-04	1.85E-04	1.62E-04	1.42E-04	1.27E-04	1.15E-04	1.07E-04	1.01E-04	9.66E-05	9.35E-05
San Bernardino (SC)	Annual	MH	DSL	AllMYr	55	0.1770273	0.17012305	0.1642055	0.157838424	0.15095659	0.1437502	0.1343811	0.125949	0.118462	0.111992	0.1049314	0.09816179	0.09107378	0.0845535	0.0789691	0.073871	0.067861222	0.0623276	0.057252688	0.05311821	0.049840942
San Bernardino (SC)	Annual	MH	GAS	AllMYr	60	0.0011906	0.00102205	8.74E-04	7.47E-04	6.41E-04	5.46E-04	4.57E-04	3.87E-04	3.29E-04	2.80E-04	2.39E-04	2.07E-04	1.80E-04	1.57E-04	1.38E-04	1.24E-04	1.12E-04	1.04E-04	9.81E-05	9.38E-05	9.09E-05
San Bernardino (SC)	Annual	MH	DSL	AllMYr	60	0.2060035	0.19806384	0.19120029	0.183865791	0.17583797	0.1674112	0.156405	0.146505	0.13769	0.130112	0.1218988	0.11402118	0.1058082	0.0982053	0.0916512	0.085696	0.078705329	0.0722694	0.066380057	0.06157415	0.057754426
San Bernardino (SC)	Annual	MH	GAS	AllMYr	65	0.0012062	0.00103543	8.86E-04	7.56E-04	6.49E-04	5.53E-04	4.63E-04	3.92E-04	3.33E-04	2.83E-04	2.42E-04	2.09E-04	1.82E-04	1.59E-04	1.40E-04	1.25E-04	1.14E-04	1.06E-04	9.94E-05	9.51E-05	9.21E-05
San Bernardino (SC)	Annual	MH	DSL	AllMYr	65	0.2429329	0.23358243	0.22544319	0.216823467	0.20727516	0.1972388	0.1840729	0.17222	0.161653	0.152608	0.1429051	0.13361093	0.12396368	0.1149741	0.1071624	0.100101	0.091877466	0.0843192	0.077421743	0.071785	0.067289762
San Bernardino (SC)	Annual	MH	GAS	AllMYr	70					6.85E-04	5.84E-04	4.89E-04	4.14E-04	3.52E-04	2.99E-04	2.56E-04	2.21E-04	1.93E-04	1.68E-04	1.47E-04	1.32E-04	1.20E-04	1.11E-04	1.05E-04	1.00E-04	9.73E-05
San Bernardino (SC)	Annual	MH	DSL	AllMYr	70					0.24526821	0.2332332	0.2173847	0.203094	0.19035	0.179477	0.1679504	0.15693108	0.14554022	0.1348597	0.1255027	0.117086	0.107377641	0.0984768	0.090377752	0.08375075	0.07844695
San Bernardino (SC)	Annual	OBUS	GAS	AllMYr	5	0.0053267	0.00470293	0.00409241	0.003594654	0.00319447	0.0028385	0.002543	0.002281	0.00205	0.001852	0.0016847	0.0015527	0.00145037	0.0013556	0.0012869	0.001214	0.001174574	0.0011327	0.001099659	0.00106887	0.001050646
San Bernardino (SC)	Annual	OBUS	DSL	AllMYr	5	0.3425622	0.23252322	0.12747499	0.11585848	0.10663703	0.079693	0.0609858	0.058884	0.057314	0.057154	0.0577311	0.05807087	0.05828733	0.0584075	0.0585407	0.058595	0.058525138	0.0585379	0.058518463	0.05847716	0.058435643
San Bernardino (SC)	Annual	OBUS	GAS	AllMYr	10	0.0042895	0.00378718	0.00329555	0.002894711	0.00257245	0.0022858	0.0020478	0.001837	0.001651	0.001492	0.0013566	0.00125036	0.00116795	0.0010916	0.0010363	9.77E-04	9.46E-04	9.12E-04	8.86E-04	8.61E-04	8.46E-04
San Bernardino (SC)	Annual	OBUS	DSL	AllMYr	10	0.2389221	0.16951659	0.09858252	0.090749743	0.08540131	0.0684184	0.0557793	0.053852	0.05242	0.052607	0.053137	0.05344635	0.05364054	0.0537467	0.0538678	0.053917	0.053759839	0.0537715	0.053753451	0.05371569	0.053677762
San Bernardino (SC)	Annual	OBUS	GAS	AllMYr	15	0.0028696	0.00253355	0.00220466	0.001936506	0.00172092	0.0015291	0.00137	0.001229	0.001104	9.98E-04	9.08E-04	8.36E-04	7.81E-04	7.30E-04	6.93E-04	6.54E-04	6.33E-04	6.10E-04	5.92E-04	5.76E-04	5.66E-04
San Bernardino (SC)	Annual	OBUS	DSL	AllMYr	15	0.1718221	0.12527672	0.07600732	0.071762315	0.06844701	0.0577506	0.0496352	0.04788	0.046636	0.046926	0.0474058	0.04770122	0.04790344	0.0480237	0.0481402	0.048186	0.048314772	0.0483263	0.048311317	0.04827581	0.048239832
San Bernardino (SC)	Annual	OBUS	GAS	AllMYr	20	0.002001	0.00176672	0.00153737	0.001350379	0.00120005	0.0010663	9.55E-04	8.57E-04	7.70E-04	6.96E-04	6.33E-04	5.83E-04	5.45E-04	5.09E-04	4.83E-04	4.56E-04	4.41E-04	4.25E-04	4.13E-04	4.02E-04	3.95E-04
San Bernardino (SC)	Annual	OBUS	DSL	AllMYr	20	0.1126106	0.08788328	0.05775932	0.05572014	0.05408734	0.0491361	0.0448444	0.043267	0.042137	0.04223	0.0426608	0.0429251	0.04310473	0.0432108	0.043315	0.043356	0.043334124	0.0433446	0.0433312	0.04329923	0.043266819
San Bernardino (SC)	Annual	OBUS	GAS	AllMYr	25	0.0014545	0.00128418	0.00111748	9.82E-04	8.72E-04	7.75E-04	6.94E-04	6.23E-04	5.60E-04	5.06E-04	4.60E-04	4.24E-04	3.96E-04	3.70E-04	3.51E-04	3.31E-04	3.21E-04	3.09E-04	3.00E-04	2.92E-04	2.87E-04
San Bernardino (SC)	Annual	OBUS	DSL	AllMYr	25	0.0969198	0.07751739	0.05231221	0.050849857	0.04971531	0.0461649	0.0428919	0.041386	0.040303	0.040726	0.0411387	0.04138598	0.04154791	0.0416403	0.0417375	0.041776	0.04197367	0.0419829	0.041968953	0.04193928	0.041909449
San Bernardino (SC)	Annual	OBUS	GAS	AllMYr	30	0.001102	9.73E-04	8.47E-04	7.44E-04	6.61E-04	5.87E-04	5.26E-04	4.72E-04	4.24E-04	3.83E-04	3.49E-04	3.21E-04	3.00E-04	2.80E-04	2.66E-04	2.51E-04	2.43E-04	2.34E-04	2.28E-04	2.21E-04	2.17E-04
San Bernardino (SC)	Annual	OBUS	DSL	AllMYr	30	0.085729	0.07087069	0.04961054	0.048606578	0.04775811	0.0453876	0.042793	0.041297	0.040211	0.040846	0.0412576	0.04149836	0.04164996	0.0417332	0.0418274	0.041866	0.041901483	0.0419103	0.041896113	0.04186695	0.041837713
San Bernardino (SC)	Annual	OBUS	GAS	AllMYr	35	8.70E-04	7.68E-04	6.69E-04	5.87E-04	5.22E-04	4.64E-04	4.16E-04	3.73E-04	3.35E-04	3.03E-04	2.75E-04	2.54E-04	2.37E-04	2.22E-04	2.10E-04	1.98E-04	1.92E-04	1.85E-04	1.80E-04	1.75E-04	1.72E-04
San Bernardino (SC)	Annual	OBUS	DSL	AllMYr	35	0.079482	0.06781468	0.04915886	0.048530123	0.04774838	0.0462612	0.0445464	0.042999	0.041861	0.042213	0.042638	0.04288725	0.04304459	0.0431311	0.0432287	0.043268	0.043163068	0.0431724	0.043158038	0.04312765	0.043097119
San Bernardino (SC)	Annual	OBUS	GAS	AllMYr	40	7.17E-04	6.33E-04	5.51E-04	4.84E-04	4.30E-04	3.82E-04	3.42E-04	3.07E-04	2.76E-04	2.49E-04	2.27E-04	2.09E-04	1.95E-04	1.82E-04	1.73E-04	1.63E-04	1.58E-04	1.52E-04	1.48E-04	1.44E-04	1.41E-04
San Bernardino (SC)	Annual	OBUS	DSL	AllMYr	40	0.0778868	0.06815626	0.05081394	0.050462857	0.05005713	0.0492171	0.0474594	0.0458	0.044596	0.044903	0.0453579	0.0456297	0.04580704	0.0459079	0.0460146	0.046057	0.046123599	0.0461339	0.046118749	0.04608592	0.046052857
San Bernardino (SC)	Annual	OBUS	GAS	AllMYr	45	6.15E-04	5.43E-04	4.72E-04	4.15E-04	3.69E-04	3.28E-04	2.94E-04	2.63E-04	2.37E-04	2.14E-04	1.94E-04	1.79E-04	1.67E-04	1.56E-04	1.49E-04	1.40E-04	1.36E-04	1.31E-04	1.27E-04	1.23E-04	1.21E-04
San Bernardino (SC)	Annual	OBUS	DSL	AllMYr	45	0.0806601	0.07166536	0.05437966	0.05419692	0.05379209	0.0533673	0.0519485	0.050117	0.048811	0.049181	0.0496823	0.04998768	0.05019322	0.0503136	0.0504338	0.050481	0.050651866	0.0506636	0.05064745	0.05061077	0.05057371
San Bernardino (SC)	Annual	OBUS	GAS	AllMYr	50	5.50E-04	4.86E-04	4.23E-04	3.71E-04	3.30E-04	2.93E-04	2.63E-04	2.36E-04	2.12E-04	1.91E-04	1.74E-04	1.60E-04	1.50E-04	1.40E-04	1.33E-04	1.25E-04	1.21E-04	1.17E-04	1.14E-04	1.10E-04	1.08E-04
San Bernardino (SC)	Annual	OBUS	DSL	AllMYr	50	0.0882299	0.07900626	0.06069441	0.060578795	0.06015402	0.0599061	0.058439	0.056373	0.054908	0.05599	0.0565572	0.05689557	0.05711582	0.0572408	0.0573736	0.057427	0.057514001	0.0575268	0.057507846	0.05746698	0.057425843
San Bernardino (SC)	Annual	OBUS	GAS	AllMYr	55	5.13E-04	4.53E-04	3.94E-04	3.46E-04	3.08E-04	2.73E-04	2.45E-04	2.20E-04	1.97E-04	1.78E-04	1.62E-04	1.49E-04	1.40E-04	1.31E-04	1.24E-04	1.17E-04	1.13E-04	1.09E-04	1.06E-04	1.03E-04	1.01E-04
San Bernardino (SC)	Annual	OBUS	DSL	AllMYr	55	0.1007476	0.09028281	0.06981836	0.069674792	0.06940353	0.0690669	0.0674823	0.065119	0.06341	0.06435	0.0649993	0.06538209	0.06562611	0.0657617	0.0659117	0.065972	0.066015299	0.0660295	0.066007434	0.06596108	0.065914523
San Bernardino (SC)	Annual	OBUS	GAS	AllMYr	60	4.98E-04	4.40E-04	3.83E-04	3.36E-04	2.99E-04	2.66E-04	2.38E-04	2.13E-04	1.92E-04	1.73E-04	1.58E-04	1.45E-04	1.36E-04	1.27E-04	1.20E-04	1.14E-04	1.10E-04	1.06E-04	1.03E-04	1.00E-04	9.83E-05
San Bernardino (SC)	Annual	OBUS	DSL	AllMYr	60	0.1194455	0.10733589	0.08390409	0.083654687	0.08248455	0.0817921	0.0799841	0.077256	0.075175	0.076332	0.0770877	0.07750114	0.07773034	0.0778383	0.0779984	0.078066	0.078553889	0.078567	0.078536747	0.07848693	0.078437979
San Bernardino (SC)	Annual	OBUS	GAS	AllMYr	65	5.05E-04	4.46E-04	3.88E-04	3.41E-04	3.03E-04	2.69E-04	2.41E-04	2.16E-04	1.94E-04	1.76E-04	1.60E-04	1.47E-04	1.37E-04	1.29E-04	1.22E-04	1.15E-04	1.11E-04	1.07E-04	1.04E-04	1.01E-04	9.96E-05
San Bernardino (SC)	Annual	OBUS	DSL	AllMYr	65	0.1424496	0.12777871	0.10022652	0.099745266	0.09864141	0.0974022	0.0947536	0.091598	0.089075	0.090002	0.0908815	0.09133533	0.0915556	0.091639	0.091813	0.09189	0.092053746	0.092067	0.092029502	0.09197398	0.091920057
San Bernardino (SC)	Annual	OBUS	GAS	AllMYr	70					3.20E-04	2.84E-04	2.55E-04	2.28E-04	2.05E-04	1.85E-04	1.69E-04	1.55E-04	1.45E-04	1.36E-04	1.29E-04	1.22E-04	1.18E-04	1.13E-04	1.10E-04	1.07E-04	1.05E-04
San Bernardino (SC)	Annual	OBUS	DSL	AllMYr	70					0.11507728	0.1131283	0.1096045	0.105966	0.103039	0.104071	0.1050858	0.10560522	0.10585211	0.1059416	0.1061406	0.106229	0.10630669	0.1063218	0.106278178	0.10621441	0.106152566
San Bernardino (SC)	Annual	SBUS	GAS	AllMYr	5	0.0399689	0.03224937	0.02685269	0.018141098	0.01354593	0.0129349	0.0122457	0.011296	0.010178	0.009134	0.0087702	0.00823644	0.0079634	0.0077241	0.0071205	0.006532	0.006009948	0.0053765	0.004077043	0.00317794	0.002002271
San Bernardino (SC)	Annual	SBUS	DSL	AllMYr	5	0.4279215	0.43112285	0.43299406	0.24095329	0.23602456	0.2312365	0.2215373	0.213613	0.207436	0.19716	0.1867056	0.17434536	0.15882087	0.142475	0.1253136	0.108866	0.091600266	0.0796253	0.062835789	0.06382376	0.064330803
San Bernardino (SC)	Annual	SBUS	GAS	AllMYr	10	0.0321863	0.02596984	0.021624	0.014608704	0.0109083	0.0104163	0.0098613	0.009096	0.008197	0.007355	0.0070625	0.00663266	0.00641279	0.0062201	0.005734	0.00526	0.004839704	0.0043296	0.00328317	0.00255914	0.001612393
San Bernardino (SC)	Annual	SBUS	DSL	AllMYr	10	0.3028328	0.30502925	0.30635939	0.168734693	0.1650157	0.1614709	0.1543137	0.149498	0.145811	0.139481	0.1331937	0.1257159	0.11621162	0.1062497	0.0957337	0.085728	0.075131312	0.067962	0.057629532	0.05853564	0.059000676
San Bernardino (SC)	Annual	SBUS	GAS	AllMYr	15	0.021532	0.01737332	0.01446604	0.009772942	0.00729744	0.0069683	0.006597	0.006085	0.005483	0.004921	0.0047246	0.00443712	0.00429003	0.0041611	0.0038359	0.003519	0.003237669	0.0028964	0.002196377	0.00171201	0.00107866
San Bernardino (SC)	Annual	SBUS	DSL	AllMYr	15	0.2069851	0.20841775	0.2093333	0.113555426	0.1107839	0.108206	0.1030229	0.100526	0.09869	0.095308	0.0921244	0.08828514	0.08327399	0.0780739	0.0725184	0.067316	0.061698903	0.0581066	0.052596462	0.05342344	0.053847858
San Bernardino (SC)	Annual	SBUS	GAS	AllMYr	20	0.0150149	0.0121149	0.01008757	0.006814941	0.00508871	0.0048592	0.0046003	0.004243	0.003824	0.003431	0.0032946	0.00309413	0.00299156	0.0029017	0.0026749	0.002454	0.002257716	0.0020198	0.001531595	0.00119383	7.52E-04
San Bernardino (SC)	Annual	SBUS	DSL	AllMYr	20	0.1334358	0.13429312	0.13489173	0.071481384	0.06947216	0.067662	0.0640395	0.063226	0.06273	0.061496	0.0605618	0.0593627	0.05762151	0.055883	0.0539383	0.052226	0.05023524	0.0492318	0.047235989	0.04797868	0.048359846
San Bernardino (SC)	Annual	SBUS	GAS	AllMYr	25	0.0109139	0.00880602	0.00733241	0.004953614	0.00369886	0.003532	0.0033438	0.003084	0.002779	0.002494	0.0023948	0.00224904	0.00217449	0.0021092	0.0019443	0.001784	0.001641078	0.0014681	0.001113279	8.68E-04	5.47E-04
San Bernardino (SC)	Annual	SBUS	DSL	AllMYr	25	0.1135074	0.11421513	0.11472929	0.06023597	0.05845384	0.0568674	0.0536949	0.053292	0.053119	0.052412	0.0520223	0.05146473	0.05052293	0.0496287	0.0485671	0.047706	0.046602091	0.0462245	0.045090116	0.04579907	0.046162918
San Bernardino (SC)	Annual	SBUS	GAS	AllMYr	30	0.0082692	0.00667211	0.00555559	0.003753233	0.00280253	0.0026761	0.0025335	0.002337	0.002106	0.00189	0.0018145	0.00170405	0.00164756	0.0015981	0.0014732	0.001351	0.001243405	0.0011124	8.44E-04	6.57E-04	4.14E-04
San Bernardino (SC)	Annual	SBUS	DSL	AllMYr	30	0.0977841	0.09839404	0.09885999	0.051794529	0.0502526	0.0489021	0.0461724	0.046131	0.046248	0.046	0.0460959	0.04610688	0.04586447	0.0457126	0.0454228	0.045311	0.044981586	0.0451648	0.04477971	0.04548378	0.045845126
San Bernardino (SC)	Annual	SBUS	GAS	AllMYr	35	0.0065309	0.0052695	0.00438769	0.00296423	0.00221339	0.0021136	0.0020009	0.001846	0.001663	0.001492	0.001433	0.00134582	0.00130121	0.0012621	0.0011635	0.001067	9.82E-04	8.79E-04	6.66E-04	5.19E-04	3.27E-04
San Bernardino (SC)	Annual	SBUS	DSL	AllMYr	35	0.0862659	0.08682987	0.08728384	0.04615706	0.04486845	0.043766	0.0414719	0.041744	0.042119	0.042259	0.0427825	0.04328914	0.04364613	0.0441347	0.0445056	0.045041	0.045373724	0.0460527	0.04630477	0.04703282	0.047406471
San Bernardino (SC)	Annual	SBUS	GAS	AllMYr	40	0.0053765	0.0043381	0.00361215	0.002440291	0.00182216	0.00174	0.0016473	0.001519	0.001369	0.001229	0.0011797	0.00110794	0.00107122	0.001039	9.58E-04	8.79E-04	8.08E-04	7.23E-04	5.48E-04	4.27E-04	2.69E-04
San Bernardino (SC)	Annual	SBUS	DSL	AllMYr	40	0.0789529	0.07952261	0.08000084	0.043323564	0.04230138	0.0414592	0.0395936	0.040131	0.040731	0.041191	0.0420822	0.0430115	0.04386792	0.044895	0.0458154	0.046898	0.047778505	0.0488882	0.049665296	0.05044618	0.050846952
San Bernardino (SC)	Annual	SBUS	GAS	AllMYr	45	0.0046137	0.00372265	0.00309969	0.002094086	0.00156365	0.0014931	0.0014136	0.001304	0.001175	0.001054	0.0010124	9.51E-04	9.19E-04	8.92E-04	8.22E-04	7.54E-04	6.94E-04	6.21E-04	4.71E-04	3.67E-04	2.31E-04
San Bernardino (SC)	Annual	SBUS	DSL	AllMYr	45	0.075845	0.07647226	0.07701098	0.04329404	0.0425514	0.0419817	0.0405374	0.041291	0.042084	0.042794	0.0439949	0.04527397	0.04652984	0.0479936	0.0493521	0.050881	0.052195929	0.0536713	0.054861288	0.05572387	0.056166568
San Bernardino (SC)	Annual	SBUS	GAS	AllMYr	50	0.004127	0.00332988	0.00277265	0.001873142	0.00139867	0.0013356	0.0012644	0.001166	0.001051	9.43E-04	9.06E-04	8.50E-04	8.22E-04	7.98E-04	7.35E-04	6.74E-04	6.21E-04	5.55E-04	4.21E-04	3.28E-04	2.07E-04
San Bernardino (SC)	Annual	SBUS	DSL	AllMYr	50	0.0769423	0.07767882	0.07831427	0.046068489	0.0456185	0.0453334	0.0443033	0.045225	0.046177	0.04707	0.0485207	0.05007655	0.05163187	0.0534303	0.0551158	0.056989	0.058625997	0.0604021	0.061892745	0.06286588	0.063365322
San Bernardino (SC)	Annual	SBUS	GAS	AllMYr	55	0.0038479	0.00310476	0.0025852	0.001746506	0.00130411	0.0012453	0.0011789	0.001087	9.80E-04	8.79E-04	8.44E-04	7.93E-04	7.67E-04	7.44E-04	6.86E-04	6.29E-04	5.79E-04	5.18E-04	3.93E-04	3.06E-04	1.93E-04
San Bernardino (SC)	Annual	SBUS	DSL	AllMYr	55	0.0822447	0.0831423	0.0839107	0.051646911	0.05150268	0.0515145	0.0508913	0.051933	0.053012	0.054017	0.0556595	0.05741924	0.05917404	0.0612054	0.0631066	0.065223	0.067068708	0.0690804	0.070759669	0.07187222	0.072443211
San Bernardino (SC)	Annual	SBUS	GAS	AllMYr	60	0.0037398	0.00301752	0.00251256	0.001697433	0.00126747	0.0012103	0.0011458	0.001057	9.52E-04	8.55E-04	8.21E-04	7.71E-04	7.45E-04	7.23E-04	6.66E-04	6.11E-04	5.62E-04	5.03E-04	3.81E-04	2.97E-04	1.87E-04
San Bernardino (SC)	Annual	SBUS	DSL	AllMYr	60	0.0917522	0.09286269	0.09380028	0.060029305	0.06020394	0.0605248	0.0603015	0.061415	0.062588	0.063636	0.0654113	0.06730203	0.06915632	0.0713186	0.0733243	0.075583	0.077524062	0.0797064	0.08146206	0.08274289	0.083400236
San Bernardino (SC)	Annual	T6	GAS	AllMYr	5	0.0077432	0.00640783	0.00526934	0.004349377	0.00369006	0.0031646	0.0027106	0.002404	0.002141	0.001932	0.0017563	0.00161607	0.00150537	0.0014078	0.0013199	0.001248	0.001198072	0.0011517	0.001110264	0.00106787	0.001029474
San Bernardino (SC)	Annual	T6	DSL	AllMYr	5	0.3351704	0.24409895	0.18934044	0.150636433	0.11585613	0.0603765	0.0417007	0.040931	0.039349	0.03951	0.0395905	0.03962519	0.03964121	0.0396447	0.0396264	0.039612	0.03960493	0.0395926	0.039573894	0.03954989	0.039530357
San Bernardino (SC)	Annual	T6	GAS	AllMYr	10	0.0062355	0.00516011	0.00424331	0.003502477	0.00297154	0.0025484	0.0021828	0.001936	0.001724	0.001556	0.0014143	0.0013014	0.00121225	0.0011337	0.0010629	0.001005	9.65E-04	9.27E-04	8.94E-04	8.60E-04	8.29E-04
San Bernardino (SC)	Annual	T6	DSL	AllMYr	10	0.2438127	0.18245077	0.14417149	0.116733177	0.09213563	0.0533734	0.0378641	0.037208	0.035866	0.036047	0.0361494	0.03620774	0.03624544	0.0362686	0.0362682	0.036269	0.036274582	0.0362737	0.036265742	0.03625077	0.036237678
San Bernardino (SC)	Annual	T6	GAS	AllMYr	15	0.0041714	0.00345202	0.00283869	0.002343089	0.0019879	0.0017048	0.0014603	0.001295	0.001153	0.001041	9.46E-04	8.71E-04	8.11E-04	7.58E-04	7.11E-04	6.72E-04	6.45E-04	6.20E-04	5.98E-04	5.75E-04	5.55E-04
San Bernardino (SC)	Annual	T6	DSL	AllMYr	15	0.1733154	0.13446301	0.10876785	0.089961772	0.07316196	0.0471638	0.034262	0.033701	0.032561	0.032752	0.0328679	0.03294161	0.03299382	0.0330305	0.0330428	0.033055	0.033068716	0.033076	0.033075835	0.03306761	0.033059405
San Bernardino (SC)	Annual	T6	GAS	AllMYr	20	0.0029088	0.00240719	0.0019795	0.001633901	0.00138622	0.0011888	0.0010183	9.03E-04	8.04E-04	7.26E-04	6.60E-04	6.07E-04	5.66E-04	5.29E-04	4.96E-04	4.69E-04	4.50E-04	4.33E-04	4.17E-04	4.01E-04	3.87E-04
San Bernardino (SC)	Annual	T6	DSL	AllMYr	20	0.118586	0.09661298	0.08049826	0.068306198	0.0574742	0.0411905	0.0305474	0.030072	0.029113	0.029303	0.0294243	0.02950596	0.02956628	0.0296109	0.0296315	0.02965	0.029669941	0.0296826	0.029687779	0.0296845	0.029679952
San Bernardino (SC)	Annual	T6	GAS	AllMYr	25	0.0021144	0.00174972	0.00143885	0.001187642	0.00100761	8.64E-04	7.40E-04	6.57E-04	5.85E-04	5.28E-04	4.80E-04	4.41E-04	4.11E-04	3.84E-04	3.60E-04	3.41E-04	3.27E-04	3.14E-04	3.03E-04	2.92E-04	2.81E-04
San Bernardino (SC)	Annual	T6	DSL	AllMYr	25	0.1035206	0.0859194	0.07235485	0.061942967	0.05271405	0.0390144	0.0291012	0.028655	0.027756	0.027943	0.0280631	0.02814505	0.02820614	0.0282518	0.0282739	0.028294	0.028314614	0.0283283	0.028334635	0.02833258	0.028328983

San Bernardino (SC)	Annual	T6	GAS	AllMYr	30	0.001602	0.00132572	0.00109018	9.00E-04	7.63E-04	6.55E-04	5.61E-04	4.97E-04	4.43E-04	4.00E-04	3.63E-04	3.34E-04	3.11E-04	2.91E-04	2.73E-04	2.58E-04	2.48E-04	2.38E-04	2.30E-04	2.21E-04	2.13E-04
San Bernardino (SC)	Annual	T6	DSL	AllMYr	30	0.0934747	0.07924949	0.06753477	0.058375237	0.0502795	0.0384491	0.0288419	0.028407	0.027532	0.027722	0.0278458	0.02793118	0.02799532	0.0280437	0.028068	0.02809	0.028112375	0.0281275	0.028135185	0.02813421	0.028131416
San Bernardino (SC)	Annual	T6	GAS	AllMYr	35	0.0012652	0.00104703	8.61E-04	7.11E-04	6.03E-04	5.17E-04	4.43E-04	3.93E-04	3.50E-04	3.16E-04	2.87E-04	2.64E-04	2.46E-04	2.30E-04	2.16E-04	2.04E-04	1.96E-04	1.88E-04	1.81E-04	1.74E-04	1.68E-04
San Bernardino (SC)	Annual	T6	DSL	AllMYr	35	0.0884483	0.07660326	0.06603802	0.057603008	0.05017055	0.0394947	0.0297696	0.029327	0.028439	0.02864	0.0287724	0.02886436	0.02893381	0.0289865	0.0290139	0.029038	0.029063224	0.0290802	0.029089429	0.0290894	0.029087254
San Bernardino (SC)	Annual	T6	GAS	AllMYr	40	0.0010416	8.62E-04	7.09E-04	5.85E-04	4.96E-04	4.26E-04	3.65E-04	3.23E-04	2.88E-04	2.60E-04	2.36E-04	2.17E-04	2.02E-04	1.89E-04	1.78E-04	1.68E-04	1.61E-04	1.55E-04	1.49E-04	1.44E-04	1.38E-04
San Bernardino (SC)	Annual	T6	DSL	AllMYr	40	0.0884414	0.0779807	0.06786461	0.059626281	0.0523872	0.0421511	0.031884	0.031416	0.030478	0.030698	0.0308429	0.03094457	0.03102161	0.0310803	0.0311114	0.031139	0.03116716	0.0311864	0.031197367	0.03119813	0.031196495
San Bernardino (SC)	Annual	T6	GAS	AllMYr	45	8.94E-04	7.40E-04	6.08E-04	5.02E-04	4.26E-04	3.65E-04	3.13E-04	2.78E-04	2.47E-04	2.23E-04	2.03E-04	1.87E-04	1.74E-04	1.63E-04	1.52E-04	1.44E-04	1.38E-04	1.33E-04	1.28E-04	1.23E-04	1.19E-04
San Bernardino (SC)	Annual	T6	DSL	AllMYr	45	0.0934541	0.08338182	0.07301453	0.064445054	0.05692946	0.0464184	0.0351854	0.034673	0.033648	0.033894	0.0340574	0.03417183	0.03425873	0.034325	0.0343607	0.034392	0.03442184	0.0344462	0.034458999	0.03446042	0.034459139
San Bernardino (SC)	Annual	T6	GAS	AllMYr	50	8.00E-04	6.62E-04	5.44E-04	4.49E-04	3.81E-04	3.27E-04	2.80E-04	2.48E-04	2.21E-04	1.99E-04	1.81E-04	1.67E-04	1.55E-04	1.45E-04	1.36E-04	1.29E-04	1.24E-04	1.19E-04	1.15E-04	1.10E-04	1.06E-04
San Bernardino (SC)	Annual	T6	DSL	AllMYr	50	0.1034863	0.09280661	0.08148779	0.072059329	0.06379731	0.0522966	0.0396737	0.039099	0.037951	0.03823	0.0384158	0.03854612	0.03864517	0.0387207	0.0387616	0.038798	0.038834295	0.0388595	0.038874326	0.03887626	0.038875187
San Bernardino (SC)	Annual	T6	GAS	AllMYr	55	7.45E-04	6.17E-04	5.07E-04	4.19E-04	3.55E-04	3.05E-04	2.61E-04	2.31E-04	2.06E-04	1.86E-04	1.69E-04	1.56E-04	1.45E-04	1.36E-04	1.27E-04	1.20E-04	1.15E-04	1.11E-04	1.07E-04	1.03E-04	9.91E-05
San Bernardino (SC)	Annual	T6	DSL	AllMYr	55	0.118538	0.10625508	0.09328438	0.082469104	0.07299077	0.0597856	0.0453488	0.044694	0.043386	0.043706	0.0439182	0.04406747	0.04418091	0.0442674	0.0443142	0.044356	0.044397494	0.0444263	0.044443346	0.04444565	0.044444638
San Bernardino (SC)	Annual	T6	GAS	AllMYr	60	7.25E-04	6.00E-04	4.93E-04	4.07E-04	3.45E-04	2.96E-04	2.54E-04	2.25E-04	2.00E-04	1.81E-04	1.64E-04	1.51E-04	1.41E-04	1.32E-04	1.24E-04	1.17E-04	1.12E-04	1.08E-04	1.04E-04	9.99E-05	9.63E-05
San Bernardino (SC)	Annual	T6	DSL	AllMYr	60	0.1386092	0.12372722	0.10840431	0.095674381	0.08450983	0.0688854	0.0522108	0.051457	0.049952	0.05032	0.0505645	0.05073585	0.05086598	0.050965	0.0510186	0.051066	0.051113781	0.0511467	0.051166061	0.05116859	0.051167493
San Bernardino (SC)	Annual	T6	GAS	AllMYr	65	7.34E-04	6.07E-04	4.99E-04	4.12E-04	3.50E-04	3.00E-04	2.57E-04	2.28E-04	2.03E-04	1.83E-04	1.66E-04	1.53E-04	1.43E-04	1.33E-04	1.25E-04	1.18E-04	1.14E-04	1.09E-04	1.05E-04	1.01E-04	9.76E-05
San Bernardino (SC)	Annual	T6	DSL	AllMYr	65	0.1636999	0.14522303	0.12684757	0.111675159	0.0983545	0.0795961	0.0602597	0.059389	0.05765	0.058074	0.0583547	0.05855127	0.05870035	0.0588136	0.0588746	0.058929	0.058983155	0.0590205	0.05904247	0.05904509	0.059043751
San Bernardino (SC)	Annual	T6	GAS	AllMYr	70					3.69E-04	3.17E-04	2.71E-04	2.41E-04	2.14E-04	1.93E-04	1.76E-04	1.62E-04	1.51E-04	1.41E-04	1.32E-04	1.25E-04	1.20E-04	1.15E-04	1.11E-04	1.07E-04	1.03E-04
San Bernardino (SC)	Annual	T6	DSL	AllMYr	70					0.11452476	0.0919176	0.0694955	0.06849	0.06648	0.066967	0.0672888	0.06751374	0.06768404	0.0678132	0.0678823	0.067944	0.068005617	0.0680479	0.068072573	0.06807514	0.068073413
San Bernardino (SC)	Annual	T7	GAS	AllMYr	5	0.0032593	0.00270473	0.00241712	0.002079367	0.00193613	0.0017176	0.0015421	0.001448	0.001351	0.001281	0.0012038	0.0011555	0.00111019	0.0010834	0.0010458	0.001014	9.80E-04	9.65E-04	9.51E-04	9.42E-04	9.38E-04
San Bernardino (SC)	Annual	T7	DSL	AllMYr	5	0.2874885	0.15739351	0.12506118	0.118613923	0.11244018	0.0987239	0.0895697	0.088356	0.087228	0.087367	0.0874953	0.08215066	0.08207723	0.0810018	0.0808878	0.080797	0.080712227	0.0806436	0.080547622	0.08045273	0.080390446
San Bernardino (SC)	Annual	T7	GAS	AllMYr	10	0.0026247	0.00217807	0.00194647	0.001674477	0.00155913	0.0013832	0.0012418	0.001166	0.001088	0.001032	9.69E-04	9.31E-04	8.94E-04	8.72E-04	8.42E-04	8.16E-04	7.89E-04	7.77E-04	7.66E-04	7.59E-04	7.55E-04
San Bernardino (SC)	Annual	T7	DSL	AllMYr	10	0.2150698	0.12645277	0.10374133	0.099654644	0.09560272	0.086771	0.0808258	0.079822	0.078947	0.079151	0.0793449	0.07451201	0.07451529	0.0735998	0.0735637	0.073549	0.073546286	0.0735511	0.073536343	0.07352122	0.073526861
San Bernardino (SC)	Annual	T7	GAS	AllMYr	15	0.0017559	0.00145709	0.00130215	0.001120193	0.00104303	9.25E-04	8.31E-04	7.80E-04	7.28E-04	6.90E-04	6.48E-04	6.22E-04	5.98E-04	5.84E-04	5.63E-04	5.46E-04	5.28E-04	5.20E-04	5.12E-04	5.08E-04	5.05E-04
San Bernardino (SC)	Annual	T7	DSL	AllMYr	15	0.158676	0.10155639	0.08620088	0.083884465	0.08143257	0.0762725	0.0727429	0.071911	0.071237	0.071481	0.0717181	0.06736054	0.06741824	0.0666376	0.0666576	0.066698	0.066752822	0.0668096	0.066852875	0.06689471	0.066948446
San Bernardino (SC)	Annual	T7	GAS	AllMYr	20	0.0012244	0.00101607	9.08E-04	7.81E-04	7.27E-04	6.45E-04	5.79E-04	5.44E-04	5.08E-04	4.81E-04	4.52E-04	4.34E-04	4.17E-04	4.07E-04	3.93E-04	3.81E-04	3.68E-04	3.62E-04	3.57E-04	3.54E-04	3.52E-04
San Bernardino (SC)	Annual	T7	DSL	AllMYr	20	0.1576478	0.07891287	0.06479424	0.063245303	0.061415	0.0569878	0.0543876	0.053126	0.052392	0.056095	0.0564327	0.05407996	0.05425644	0.0539196	0.0540254	0.054133	0.054830028	0.0549323	0.055026231	0.05511365	0.055205817
San Bernardino (SC)	Annual	T7	GAS	AllMYr	25	8.90E-04	7.39E-04	6.60E-04	5.68E-04	5.29E-04	4.69E-04	4.21E-04	3.95E-04	3.69E-04	3.50E-04	3.29E-04	3.16E-04	3.03E-04	2.96E-04	2.86E-04	2.77E-04	2.68E-04	2.63E-04	2.60E-04	2.57E-04	2.56E-04
San Bernardino (SC)	Annual	T7	DSL	AllMYr	25	0.101543	0.07436132	0.06612372	0.065433178	0.0644734	0.0627065	0.0614182	0.060784	0.060321	0.060585	0.0608426	0.05715633	0.05725637	0.0566376	0.0567033	0.056787	0.056886848	0.0569836	0.057072592	0.05715946	0.057250127
San Bernardino (SC)	Annual	T7	GAS	AllMYr	30	6.74E-04	5.60E-04	5.00E-04	4.30E-04	4.01E-04	3.55E-04	3.19E-04	3.00E-04	2.80E-04	2.65E-04	2.49E-04	2.39E-04	2.30E-04	2.24E-04	2.16E-04	2.10E-04	2.03E-04	2.00E-04	1.97E-04	1.95E-04	1.94E-04
San Bernardino (SC)	Annual	T7	DSL	AllMYr	30	0.0935042	0.07115034	0.06401855	0.063605297	0.06289313	0.0616916	0.0607759	0.060167	0.059736	0.060013	0.060284	0.05663578	0.05674767	0.0561448	0.0562205	0.056314	0.056424194	0.0565302	0.056629508	0.05672652	0.056826321
San Bernardino (SC)	Annual	T7	GAS	AllMYr	35	5.33E-04	4.42E-04	3.95E-04	3.40E-04	3.16E-04	2.81E-04	2.52E-04	2.37E-04	2.21E-04	2.09E-04	1.97E-04	1.89E-04	1.81E-04	1.77E-04	1.71E-04	1.66E-04	1.60E-04	1.58E-04	1.55E-04	1.54E-04	1.53E-04
San Bernardino (SC)	Annual	T7	DSL	AllMYr	35	0.0900351	0.07113081	0.06470777	0.064524425	0.06400442	0.0632515	0.0626285	0.062022	0.061608	0.06191	0.0622069	0.05844811	0.05857693	0.0579649	0.0580528	0.058159	0.05828258	0.058401	0.058513369	0.05862331	0.058735614
San Bernardino (SC)	Annual	T7	GAS	AllMYr	40	4.38E-04	3.64E-04	3.25E-04	2.80E-04	2.60E-04	2.31E-04	2.07E-04	1.95E-04	1.82E-04	1.72E-04	1.62E-04	1.55E-04	1.49E-04	1.46E-04	1.41E-04	1.36E-04	1.32E-04	1.30E-04	1.28E-04	1.27E-04	1.26E-04
San Bernardino (SC)	Annual	T7	DSL	AllMYr	40	0.0911358	0.07430273	0.06819138	0.06819056	0.06780728	0.0673861	0.066976	0.066349	0.065935	0.066277	0.0666114	0.06259333	0.06274414	0.062098	0.0622002	0.062322	0.06246205	0.062596	0.062724174	0.06284984	0.062978008
San Bernardino (SC)	Annual	T7	GAS	AllMYr	45	3.76E-04	3.12E-04	2.79E-04	2.40E-04	2.23E-04	1.98E-04	1.78E-04	1.67E-04	1.56E-04	1.48E-04	1.39E-04	1.33E-04	1.28E-04	1.25E-04	1.21E-04	1.17E-04	1.13E-04	1.11E-04	1.10E-04	1.09E-04	1.08E-04
San Bernardino (SC)	Annual	T7	DSL	AllMYr	45	0.0968063	0.08066611	0.07446937	0.074603702	0.07430171	0.0740956	0.0738184	0.073148	0.072718	0.073112	0.0734975	0.06907142	0.06924929	0.068544	0.0686626	0.068803	0.06896247	0.0691151	0.069261923	0.0694061	0.069553502
San Bernardino (SC)	Annual	T7	GAS	AllMYr	50	3.37E-04	2.79E-04	2.50E-04	2.15E-04	2.00E-04	1.77E-04	1.59E-04	1.50E-04	1.40E-04	1.32E-04	1.24E-04	1.19E-04	1.15E-04	1.12E-04	1.08E-04	1.05E-04	1.01E-04	9.96E-05	9.82E-05	9.73E-05	9.68E-05
San Bernardino (SC)	Annual	T7	DSL	AllMYr	50	0.1070466	0.09022093	0.08354174	0.083763853	0.0834877	0.0833799	0.0831556	0.082419	0.081957	0.082416	0.0828651	0.0778824	0.0780924	0.077303	0.0774402	0.077602	0.077783975	0.0779584	0.078126617	0.0782921	0.078462096
San Bernardino (SC)	Annual	T7	GAS	AllMYr	55	3.14E-04	2.60E-04	2.33E-04	2.00E-04	1.86E-04	1.65E-04	1.48E-04	1.39E-04	1.30E-04	1.23E-04	1.16E-04	1.11E-04	1.07E-04	1.04E-04	1.01E-04	9.76E-05	9.43E-05	9.29E-05	9.15E-05	9.07E-05	9.03E-05
San Bernardino (SC)	Annual	T7	DSL	AllMYr	55	0.1218566	0.1029672	0.0954085	0.095671011	0.09536527	0.095239	0.0949878	0.094162	0.093652	0.094189	0.0947143	0.08902626	0.08927346	0.0883749	0.0885328	0.088718	0.088926519	0.0891258	0.089318254	0.08950783	0.089703791
San Bernardino (SC)	Annual	T7	GAS	AllMYr	60	3.05E-04	2.53E-04	2.26E-04	1.95E-04	1.81E-04	1.61E-04	1.44E-04	1.35E-04	1.26E-04	1.20E-04	1.13E-04	1.08E-04	1.04E-04	1.01E-04	9.79E-05	9.49E-05	9.17E-05	9.03E-05	8.90E-05	8.82E-05	8.77E-05
San Bernardino (SC)	Annual	T7	DSL	AllMYr	60	0.1412364	0.11890493	0.11006964	0.110325176	0.1099344	0.1096729	0.1093148	0.108376	0.107803	0.108432	0.1090451	0.10250301	0.10279247	0.1017597	0.1019405	0.102153	0.102390102	0.1026173	0.102836835	0.10305329	0.103278587
San Bernardino (SC)	Annual	T7	GAS	AllMYr	65	3.09E-04	2.56E-04	2.29E-04	1.97E-04	1.84E-04	1.63E-04	1.46E-04	1.37E-04	1.28E-04	1.21E-04	1.14E-04	1.10E-04	1.05E-04	1.03E-04	9.91E-05	9.61E-05	9.29E-05	9.14E-05	9.01E-05	8.93E-05	8.89E-05
San Bernardino (SC)	Annual	T7	DSL	AllMYr	65	0.165186	0.1380341	0.12752516	0.127726349	0.1271951	0.1266816	0.1261367	0.125063	0.12441	0.125143	0.1258575	0.11831263	0.11864943	0.1174575	0.1176633	0.117905	0.118174725	0.118433	0.11868236	0.11892848	0.119186482
San Bernardino (SC)	Annual	T7	GAS	AllMYr	70					1.94E-04	1.72E-04	1.54E-04	1.45E-04	1.35E-04	1.28E-04	1.20E-04	1.16E-04	1.11E-04	1.08E-04	1.05E-04	1.01E-04	9.81E-05	9.66E-05	9.52E-05	9.43E-05	9.39E-05
San Bernardino (SC)	Annual	T7	DSL	AllMYr	70					0.14714737	0.1462651	0.1454535	0.144222	0.143473	0.144323	0.1451514	0.13645514	0.13684435	0.1354682	0.1357012	0.135975	0.136280388	0.1365729	0.13685483	0.13713341	0.137427478

San Bernardino (SC)	Annual	UBUS	GAS	AllMYr	5	0.0084593	0.00806745	0.00750075	0.007175978	0.00698698	0.006736	0.0064343	0.006267	0.00585	0.005448	0.0053586	0.00528073	0.0049614	0.0048906	0.004821	0.003923	0.003867072	0.003812	0.003664413	0.00257517	0.002034879
San Bernardino (SC)	Annual	UBUS	DSL	AllMYr	5	0.7255075	0.71052484	0.6939649	0.679264627	0.66422991	0.6187728	0.6026314	0.591935	0.579815	0.562256	0.5054927	0.49517073	0.48818271	0.4790885	0.4706065	0.464186	0.442907807	0.435027	0.428486361	0.39888769	0.388810847
San Bernardino (SC)	Annual	UBUS	GAS	AllMYr	10	0.0068121	0.00649657	0.00604022	0.005778687	0.00562649	0.0054244	0.0051814	0.005047	0.004711	0.004387	0.0043152	0.00425247	0.00399532	0.0039383	0.0038823	0.003159	0.003114084	0.0030697	0.002950886	0.00207374	0.001638651
San Bernardino (SC)	Annual	UBUS	DSL	AllMYr	10	0.6152302	0.60252487	0.58848204	0.576016235	0.56326682	0.5247192	0.5110313	0.501961	0.491683	0.476793	0.4286577	0.41990469	0.41397883	0.406267	0.3990742	0.393629	0.375585708	0.3689028	0.363356362	0.33825667	0.329711503
San Bernardino (SC)	Annual	UBUS	GAS	AllMYr	15	0.0045572	0.00434608	0.00404079	0.00386583	0.00376401	0.0036288	0.0034663	0.003376	0.003152	0.002935	0.0028868	0.00284482	0.00267279	0.0026347	0.0025972	0.002113	0.002083262	0.0020536	0.001974086	0.00138729	0.001096226
San Bernardino (SC)	Annual	UBUS	DSL	AllMYr	15	0.4541813	0.44480192	0.43443503	0.425232426	0.4158204	0.3873634	0.3772586	0.370563	0.362975	0.351983	0.3164479	0.30998619	0.30561155	0.2999184	0.2946085	0.290589	0.277268604	0.2723351	0.268240537	0.24971119	0.243402887
San Bernardino (SC)	Annual	UBUS	GAS	AllMYr	20	0.0031779	0.00303064	0.00281775	0.00269575	0.00262475	0.0025305	0.0024171	0.002354	0.002198	0.002047	0.002013	0.00198377	0.00186381	0.0018372	0.0018111	0.001474	0.001452716	0.001432	0.001376584	9.67E-04	7.64E-04
San Bernardino (SC)	Annual	UBUS	DSL	AllMYr	20	0.3472331	0.34006234	0.33213663	0.325100959	0.31790524	0.2961491	0.2884238	0.283305	0.277503	0.2691	0.2419325	0.2369923	0.23364778	0.2292952	0.2252357	0.222163	0.211978881	0.2082071	0.205076694	0.19091054	0.186087679
San Bernardino (SC)	Annual	UBUS	GAS	AllMYr	25	0.0023099	0.0022029	0.00204816	0.001959474	0.00190787	0.0018393	0.0017569	0.001711	0.001598	0.001488	0.0014632	0.00144196	0.00135476	0.0013354	0.0013164	0.001071	0.001055944	0.0010409	0.001000606	7.03E-04	5.56E-04
San Bernardino (SC)	Annual	UBUS	DSL	AllMYr	25	0.2749245	0.26924694	0.26297172	0.257401191	0.25170391	0.2344783	0.2283617	0.224309	0.219715	0.213062	0.1915519	0.18764045	0.18499242	0.1815462	0.1783321	0.175899	0.167835906	0.1648495	0.162371034	0.15115487	0.147336333
San Bernardino (SC)	Annual	UBUS	GAS	AllMYr	30	0.0017502	0.00166908	0.00155184	0.001484646	0.00144554	0.0013936	0.0013312	0.001297	0.00121	0.001127	0.0011087	0.00109254	0.00102647	0.0010118	9.97E-04	8.12E-04	8.00E-04	7.89E-04	7.58E-04	5.33E-04	4.21E-04
San Bernardino (SC)	Annual	UBUS	DSL	AllMYr	30	0.225427	0.2207717	0.21562622	0.211058604	0.20638708	0.1922628	0.1872474	0.183924	0.180158	0.174702	0.1570648	0.15385763	0.15168634	0.1488606	0.1462251	0.14423	0.137618692	0.13517	0.133137714	0.12394092	0.120809869
San Bernardino (SC)	Annual	UBUS	GAS	AllMYr	35	0.0013822	0.00131821	0.00122561	0.001172545	0.00114166	0.0011006	0.0010513	0.001024	9.56E-04	8.90E-04	8.76E-04	8.63E-04	8.11E-04	7.99E-04	7.88E-04	6.41E-04	6.32E-04	6.23E-04	5.99E-04	4.21E-04	3.32E-04
San Bernardino (SC)	Annual	UBUS	DSL	AllMYr	35	0.1914251	0.18747193	0.18310256	0.179223926	0.17525701	0.1632631	0.1590042	0.156182	0.152984	0.148351	0.1333742	0.13065075	0.12880697	0.1264075	0.1241695	0.122475	0.116861184	0.1147818	0.113056096	0.10524648	0.102587693
San Bernardino (SC)	Annual	UBUS	GAS	AllMYr	40	0.0011379	0.00108521	0.00100898	9.65E-04	9.40E-04	9.06E-04	8.66E-04	8.43E-04	7.87E-04	7.33E-04	7.21E-04	7.10E-04	6.67E-04	6.58E-04	6.49E-04	5.28E-04	5.20E-04	5.13E-04	4.93E-04	3.46E-04	2.74E-04
San Bernardino (SC)	Annual	UBUS	DSL	AllMYr	40	0.1683418	0.16486534	0.16102287	0.157611922	0.15412337	0.1435758	0.1398305	0.137349	0.134536	0.130462	0.1172911	0.11489604	0.11327459	0.1111644	0.1091963	0.107706	0.102769301	0.1009407	0.099423057	0.09255517	0.090217006
San Bernardino (SC)	Annual	UBUS	GAS	AllMYr	45	9.76E-04	9.31E-04	8.66E-04	8.28E-04	8.07E-04	7.78E-04	7.43E-04	7.23E-04	6.75E-04	6.29E-04	6.19E-04	6.10E-04	5.73E-04	5.65E-04	5.57E-04	4.53E-04	4.46E-04	4.40E-04	4.23E-04	2.97E-04	2.35E-04
San Bernardino (SC)	Annual	UBUS	DSL	AllMYr	45	0.1533153	0.15014915	0.14664965	0.143543165	0.14036602	0.1307599	0.1273489	0.125089	0.122527	0.118817	0.1068214	0.10464019	0.10316348	0.1012417	0.0994492	0.098092	0.093595917	0.0919305	0.090548357	0.08429352	0.082164057
San Bernardino (SC)	Annual	UBUS	GAS	AllMYr	50	8.73E-04	8.33E-04	7.74E-04	7.41E-04	7.21E-04	6.96E-04	6.64E-04	6.47E-04	6.04E-04	5.63E-04	5.53E-04	5.45E-04	5.12E-04	5.05E-04	4.98E-04	4.05E-04	3.99E-04	3.94E-04	3.78E-04	2.66E-04	2.10E-04
San Bernardino (SC)	Annual	UBUS	DSL	AllMYr	50	0.1446036	0.1416174	0.13831676	0.135386809	0.13239017	0.1233299	0.1201128	0.117981	0.115565	0.112065	0.1007517	0.09869435	0.09730156	0.0954889	0.0937984	0.092519	0.088277632	0.0867069	0.085403241	0.07950381	0.077495354
San Bernardino (SC)	Annual	UBUS	GAS	AllMYr	55	8.14E-04	7.77E-04	7.22E-04	6.91E-04	6.73E-04	6.48E-04	6.19E-04	6.03E-04	5.63E-04	5.25E-04	5.16E-04	5.08E-04	4.78E-04	4.71E-04	4.64E-04	3.78E-04	3.72E-04	3.67E-04	3.53E-04	2.48E-04	1.96E-04
San Bernardino (SC)	Annual	UBUS	DSL	AllMYr	55	0.1412451	0.1383282	0.13510421	0.132242315	0.12931528	0.1204655	0.117323	0.115241	0.112881	0.109463	0.0984116	0.09640208	0.09504161	0.0932711	0.0916198	0.09037	0.086227295	0.084693	0.083419675	0.07765726	0.075695445
San Bernardino (SC)	Annual	UBUS	GAS	AllMYr	60	7.92E-04	7.55E-04	7.02E-04	6.71E-04	6.54E-04	6.30E-04	6.02E-04	5.86E-04	5.47E-04	5.10E-04	5.01E-04	4.94E-04	4.64E-04	4.58E-04	4.51E-04	3.67E-04	3.62E-04	3.57E-04	3.43E-04	2.41E-04	1.90E-04
San Bernardino (SC)	Annual	UBUS	DSL	AllMYr	60	0.1428788	0.13992815	0.13666688	0.133771854	0.13081099	0.1218588	0.11868	0.116574	0.114187	0.110729	0.0995499	0.09751709	0.0961409	0.0943499	0.0926795	0.091415	0.087224624	0.0856726	0.084384524	0.07855547	0.076570967

70-year Average DPM Emission Factors (2015-2084)

Vehicle Class	10 mph (g/mi)	35 mph (g/mi)
LHDT1	0.056304	0.022104
LHDT2	0.053224	0.020895
T6 (MHDT)	0.045575	0.032399
T7 (HHDT)	0.079131	0.060694

EMFAC2011 Idling Emission Factors (2015 - 2085)

Idling Emission Factors for LHDT1 and LHDT2 are derived by multiplying the Running Exhaust Emission Factor (g/mi) times 5 mph to get g/hr

Idling Emission Factors for MHDT and HHDT derived directly from the CARB HDT Idling Emission Factor Database

Vehicle Class	70-year Ave Emission Factor at 5 mph	Speed (mph)	70-year Emission Factor (g/mi)
LHDT2	0.0213	5	**0.1066**

	T6 Idling Factors (g/hr)	T7 Idling Factors (g/hr)
2015	0.337	0.268
2016	0.277	0.147
2017	0.235	0.125
2018	0.205	0.123
2019	0.178	0.12
2020	0.112	0.117
2021	0.098	0.114
2022	0.096	0.112
2023	0.093	0.11
2024	0.092	0.11
2025	0.092	0.11
2026	0.092	0.109
2027	0.092	0.109
2028	0.091	0.109
2029	0.091	0.109
2030	0.091	0.109
2031	0.091	0.108
2032	0.091	0.108
2033	0.091	0.108
2034	0.091	0.108
2035	0.09	0.108

	70-Year Ave Idling Emission Factor (g/hr)
T6 (MHDT	0.103
T7 (HHDT)	0.113

APPENDIX D

CalEEMod Model Annual Emissions Printouts

Alabama Venture 1, 5416 warehouse

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	313.47	1000sqft	7.20	313,470.00	0
Parking Lot	238.00	Space	2.14	95,200.00	0
Other Non-Asphalt Surfaces	5.47	Acre	5.47	238,273.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2015
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 313.470 1000 sq ft of warehouse on 14.81 238 space parking lot and 4.73 acres of other non-asphalt surfaces.

Construction Phase - Project schedule provided by applicant

Trips and VMT - 6 vendor trucks per day added to the Site Preparation and Grading phases to account for water truck emissions

Architectural Coating - Per SCAQMD Rule 1113, architectural coatings that are applied after January 1, 2014 will be limited to 50 grams of VOC per liter

Vehicle Trips - Trip Rate set to 1.68 per 1000 sq ft to match TIA. C-W Trip length extended to 40 miles and percentage adjusted to 20

Vechicle Emission Factors - Vehicle mix revised to match TIA

Vechicle Emission Factors - Vehicle mix revised to match TIA

Vechicle Emission Factors - Vehicle mix revised to match TIA

Water And Wastewater - Indoor water use 10,518,697 gallons per year. Outdoor water use 3,576,357 gallons per year

Construction Off-road Equipment Mitigation - Water exposed areas a minimum of 3 times per day

Grading - Site is 14.81 acres

Area Coating - SCAQMD Rule 1113 50g/L VOC

Sequestration - ~1 tree per 3 parking spaces = 238 spaces / 3 spaces = 80 trees

Mobile Land Use Mitigation - 1.9 miles to downtown Redlands. Warehouse will create an average of 15 jobs per acre. Sidewalks adjacent to site and connecting off-site.

Mobile Commute Mitigation - 80% of project traffic is light vehicle, all those vehicles are eligible for ride share and van pool

Area Mitigation - SCAQMD Rule 1113

Energy Mitigation - 2013 Title 24 is 30% more efficient than 2008 Title 24

Water Mitigation - Green Building standards

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblConstructionPhase	NumDays	20.00	49.00
tblConstructionPhase	NumDays	300.00	262.00
tblConstructionPhase	NumDays	20.00	52.00

tblConstructionPhase	PhaseEndDate	10/23/2015	10/25/2015
tblGrading	AcresOfGrading	75.00	14.81
tblProjectCharacteristics	OperationalYear	2014	2015
tblSequestration	NumberOfNewTrees	0.00	80.00
tblVehicleEF	HHD	0.04	0.12
tblVehicleEF	HHD	0.04	0.12
tblVehicleEF	HHD	0.04	0.12
tblVehicleEF	LDA	0.47	0.43
tblVehicleEF	LDA	0.47	0.43
tblVehicleEF	LDA	0.47	0.43
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT2	0.17	0.16
tblVehicleEF	LDT2	0.17	0.16
tblVehicleEF	LDT2	0.17	0.16
tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD2	9.1200e-003	5.0000e-003
tblVehicleEF	LHD2	9.1200e-003	5.0000e-003
tblVehicleEF	LHD2	9.1200e-003	5.0000e-003
tblVehicleEF	MCY	4.8710e-003	4.0000e-003
tblVehicleEF	MCY	4.8710e-003	4.0000e-003
tblVehicleEF	MCY	4.8710e-003	4.0000e-003
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.16	0.14

tblVehicleEF	MH	2.9140e-003	0.00
tblVehicleEF	MH	2.9140e-003	0.00
tblVehicleEF	MH	2.9140e-003	0.00
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	OBUS	1.1190e-003	0.00
tblVehicleEF	OBUS	1.1190e-003	0.00
tblVehicleEF	OBUS	1.1190e-003	0.00
tblVehicleEF	SBUS	7.2300e-004	0.00
tblVehicleEF	SBUS	7.2300e-004	0.00
tblVehicleEF	SBUS	7.2300e-004	0.00
tblVehicleEF	UBUS	1.3380e-003	0.00
tblVehicleEF	UBUS	1.3380e-003	0.00
tblVehicleEF	UBUS	1.3380e-003	0.00
tblVehicleTrips	CNW_TTP	41.00	80.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	20.00
tblVehicleTrips	ST_TR	2.59	1.68
tblVehicleTrips	SU_TR	2.59	1.68
tblVehicleTrips	WD_TR	2.59	1.68

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					
2014	0.4336	3.5482	3.5684	5.3000e-003	0.2870	0.1855	0.4725	0.1013	0.1730	0.2744	0.0000	471.3508	471.3508	0.0681	0.0000	472.7808
2015	1.8391	4.1511	4.6011	7.6900e-003	0.3098	0.2284	0.5382	0.0834	0.2140	0.2973	0.0000	664.3278	664.3278	0.0811	0.0000	666.0318
Total	**2.2727**	**7.6993**	**8.1695**	**0.0130**	**0.5968**	**0.4138**	**1.0106**	**0.1847**	**0.3870**	**0.5717**	**0.0000**	**1,135.6787**	**1,135.6787**	**0.1492**	**0.0000**	**1,138.8125**

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					
2014	0.4336	3.5482	3.5684	5.3000e-003	0.2271	0.1855	0.4126	0.0705	0.1730	0.2436	0.0000	471.3506	471.3506	0.0681	0.0000	472.7805
2015	1.8391	4.1511	4.6011	7.6900e-003	0.3098	0.2284	0.5382	0.0834	0.2140	0.2973	0.0000	664.3275	664.3275	0.0811	0.0000	666.0315
Total	**2.2727**	**7.6993**	**8.1695**	**0.0130**	**0.5369**	**0.4138**	**0.9508**	**0.1539**	**0.3870**	**0.5409**	**0.0000**	**1,135.6781**	**1,135.6781**	**0.1492**	**0.0000**	**1,138.8120**

	ROG	NOx	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**	**10.04**	**0.00**	**5.93**	**16.68**	**0.00**	**5.39**	**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	tons/yr										MT/yr					
Area	2.8526	7.0000e-005	7.3500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0138	0.0138	4.0000e-005	0.0000	0.0147
Energy	3.6200e-003	0.0329	0.0276	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	330.6800	330.6800	0.0142	3.4600e-003	332.0519
Mobile	0.5544	3.6978	7.3979	0.0164	0.9288	0.0582	0.9869	0.2495	0.0535	0.3030	0.0000	1,388.4498	1,388.4498	0.0436	0.0000	1,389.3651
Waste						0.0000	0.0000		0.0000	0.0000	59.8133	0.0000	59.8133	3.5349	0.0000	134.0455
Water						0.0000	0.0000		0.0000	0.0000	22.9977	270.1105	293.1082	2.3745	0.0583	361.0590
Total	**3.4105**	**3.7307**	**7.4329**	**0.0166**	**0.9288**	**0.0607**	**0.9895**	**0.2495**	**0.0560**	**0.3055**	**82.8110**	**1,989.2542**	**2,072.0652**	**5.9672**	**0.0618**	**2,216.5362**

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	2.4670	7.0000e-005	7.3500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0138	0.0138	4.0000e-005	0.0000	0.0147
Energy	2.5500e-003	0.0232	0.0195	1.4000e-004		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	307.9811	307.9811	0.0135	3.1500e-003	309.2412
Mobile	0.4809	2.6987	5.9549	0.0116	0.6484	0.0411	0.6895	0.1742	0.0378	0.2119	0.0000	979.3833	979.3833	0.0314	0.0000	980.0425
Waste						0.0000	0.0000		0.0000	0.0000	59.8133	0.0000	59.8133	3.5349	0.0000	134.0455
Water						0.0000	0.0000		0.0000	0.0000	18.3982	216.0884	234.4866	1.8993	0.0466	288.8179
Total	**2.9504**	**2.7219**	**5.9817**	**0.0117**	**0.6484**	**0.0429**	**0.6913**	**0.1742**	**0.0395**	**0.2137**	**78.2115**	**1,503.4666**	**1,581.6781**	**5.4790**	**0.0498**	**1,712.1617**

	ROG	NOx	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	**13.49**	**27.04**	**19.52**	**29.41**	**30.19**	**29.38**	**30.14**	**30.18**	**29.41**	**30.04**	**5.55**	**24.42**	**23.67**	**8.18**	**19.50**	**22.76**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	56.6400
Total	**56.6400**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	7/1/2014	8/11/2014	5	30	
2	Building Construction	Building Construction	8/12/2014	8/12/2015	5	262	
3	Paving	Paving	8/13/2015	10/25/2015	5	52	
4	Architectural Coating	Architectural Coating	10/26/2015	12/31/2015	5	49	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 14.81

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 831,899; Non-Residential Outdoor: 277,300 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	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
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	272.00	106.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	54.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2014

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					0.0982	0.0000	0.0982	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1027	1.2108	0.7738	9.3000e-004		0.0582	0.0582		0.0535	0.0535	0.0000	89.1967	89.1967	0.0264	0.0000	89.7502
Total	**0.1027**	**1.2108**	**0.7738**	**9.3000e-004**	**0.0982**	**0.0582**	**0.1564**	**0.0505**	**0.0535**	**0.1040**	**0.0000**	**89.1967**	**89.1967**	**0.0264**	**0.0000**	**89.7502**

3.2 Grading - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4600e-003	2.1900e-003	0.0228	4.0000e-005	3.2900e-003	3.0000e-005	3.3200e-003	8.7000e-004	3.0000e-005	9.0000e-004	0.0000	3.1417	3.1417	1.9000e-004	0.0000	3.1457
Total	**1.4600e-003**	**2.1900e-003**	**0.0228**	**4.0000e-005**	**3.2900e-003**	**3.0000e-005**	**3.3200e-003**	**8.7000e-004**	**3.0000e-005**	**9.0000e-004**	**0.0000**	**3.1417**	**3.1417**	**1.9000e-004**	**0.0000**	**3.1457**

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					0.0383	0.0000	0.0383	0.0197	0.0000	0.0197	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1027	1.2108	0.7738	9.3000e-004		0.0582	0.0582		0.0535	0.0535	0.0000	89.1966	89.1966	0.0264	0.0000	89.7501
Total	**0.1027**	**1.2108**	**0.7738**	**9.3000e-004**	**0.0383**	**0.0582**	**0.0965**	**0.0197**	**0.0535**	**0.0732**	**0.0000**	**89.1966**	**89.1966**	**0.0264**	**0.0000**	**89.7501**

3.2 Grading - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4600e-003	2.1900e-003	0.0228	4.0000e-005	3.2900e-003	3.0000e-005	3.3200e-003	8.7000e-004	3.0000e-005	9.0000e-004	0.0000	3.1417	3.1417	1.9000e-004	0.0000	3.1457
Total	**1.4600e-003**	**2.1900e-003**	**0.0228**	**4.0000e-005**	**3.2900e-003**	**3.0000e-005**	**3.3200e-003**	**8.7000e-004**	**3.0000e-005**	**9.0000e-004**	**0.0000**	**3.1417**	**3.1417**	**1.9000e-004**	**0.0000**	**3.1457**

3.3 Building Construction - 2014

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	0.1973	1.5939	0.9654	1.3700e-003		0.1136	0.1136		0.1070	0.1070	0.0000	125.3449	125.3449	0.0319	0.0000	126.0141
Total	**0.1973**	**1.5939**	**0.9654**	**1.3700e-003**		**0.1136**	**0.1136**		**0.1070**	**0.1070**	**0.0000**	**125.3449**	**125.3449**	**0.0319**	**0.0000**	**126.0141**

3.3 Building Construction - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0647	0.6402	0.7513	1.1700e-003	0.0334	0.0123	0.0458	9.5600e-003	0.0113	0.0209	0.0000	108.3946	108.3946	9.6000e-004	0.0000	108.4146
Worker	0.0674	0.1011	1.0551	1.7900e-003	0.1521	1.2900e-003	0.1534	0.0404	1.1700e-003	0.0416	0.0000	145.2730	145.2730	8.7200e-003	0.0000	145.4561
Total	**0.1321**	**0.7413**	**1.8064**	**2.9600e-003**	**0.1855**	**0.0136**	**0.1991**	**0.0500**	**0.0125**	**0.0625**	**0.0000**	**253.6676**	**253.6676**	**9.6800e-003**	**0.0000**	**253.8708**

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	0.1973	1.5939	0.9654	1.3700e-003		0.1136	0.1136		0.1070	0.1070	0.0000	125.3447	125.3447	0.0319	0.0000	126.0140
Total	**0.1973**	**1.5939**	**0.9654**	**1.3700e-003**		**0.1136**	**0.1136**		**0.1070**	**0.1070**	**0.0000**	**125.3447**	**125.3447**	**0.0319**	**0.0000**	**126.0140**

3.3 Building Construction - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0647	0.6402	0.7513	1.1700e-003	0.0334	0.0123	0.0458	9.5600e-003	0.0113	0.0209	0.0000	108.3946	108.3946	9.6000e-004	0.0000	108.4146
Worker	0.0674	0.1011	1.0551	1.7900e-003	0.1521	1.2900e-003	0.1534	0.0404	1.1700e-003	0.0416	0.0000	145.2730	145.2730	8.7200e-003	0.0000	145.4561
Total	**0.1321**	**0.7413**	**1.8064**	**2.9600e-003**	**0.1855**	**0.0136**	**0.1991**	**0.0500**	**0.0125**	**0.0625**	**0.0000**	**253.6676**	**253.6676**	**9.6800e-003**	**0.0000**	**253.8708**

3.3 Building Construction - 2015

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	0.2927	2.4024	1.4996	2.1500e-003		0.1693	0.1693		0.1592	0.1592	0.0000	195.1955	195.1955	0.0490	0.0000	196.2239
Total	**0.2927**	**2.4024**	**1.4996**	**2.1500e-003**		**0.1693**	**0.1693**		**0.1592**	**0.1592**	**0.0000**	**195.1955**	**195.1955**	**0.0490**	**0.0000**	**196.2239**

3.3 Building Construction - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0866	0.8789	1.0653	1.8400e-003	0.0524	0.0148	0.0672	0.0150	0.0136	0.0286	0.0000	169.0796	169.0796	1.3500e-003	0.0000	169.1081
Worker	0.0941	0.1412	1.4835	2.8300e-003	0.2386	1.9000e-003	0.2405	0.0634	1.7400e-003	0.0651	0.0000	221.1936	221.1936	0.0125	0.0000	221.4568
Total	**0.1807**	**1.0201**	**2.5487**	**4.6700e-003**	**0.2910**	**0.0167**	**0.3077**	**0.0784**	**0.0154**	**0.0937**	**0.0000**	**390.2733**	**390.2733**	**0.0139**	**0.0000**	**390.5649**

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	0.2927	2.4024	1.4996	2.1500e-003		0.1693	0.1693		0.1592	0.1592	0.0000	195.1952	195.1952	0.0490	0.0000	196.2237
Total	**0.2927**	**2.4024**	**1.4996**	**2.1500e-003**		**0.1693**	**0.1693**		**0.1592**	**0.1592**	**0.0000**	**195.1952**	**195.1952**	**0.0490**	**0.0000**	**196.2237**

3.3 Building Construction - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0866	0.8789	1.0653	1.8400e-003	0.0524	0.0148	0.0672	0.0150	0.0136	0.0286	0.0000	169.0796	169.0796	1.3500e-003	0.0000	169.1081
Worker	0.0941	0.1412	1.4835	2.8300e-003	0.2386	1.9000e-003	0.2405	0.0634	1.7400e-003	0.0651	0.0000	221.1936	221.1936	0.0125	0.0000	221.4568
Total	**0.1807**	**1.0201**	**2.5487**	**4.6700e-003**	**0.2910**	**0.0167**	**0.3077**	**0.0784**	**0.0154**	**0.0937**	**0.0000**	**390.2733**	**390.2733**	**0.0139**	**0.0000**	**390.5649**

3.4 Paving - 2015

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	0.0603	0.6546	0.3894	5.8000e-004		0.0368	0.0368		0.0338	0.0338	0.0000	55.1907	55.1907	0.0165	0.0000	55.5367
Paving	2.8000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0631**	**0.6546**	**0.3894**	**5.8000e-004**		**0.0368**	**0.0368**		**0.0338**	**0.0338**	**0.0000**	**55.1907**	**55.1907**	**0.0165**	**0.0000**	**55.5367**

3.4 Paving - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6900e-003	2.5300e-003	0.0266	5.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	3.9644	3.9644	2.2000e-004	0.0000	3.9691
Total	**1.6900e-003**	**2.5300e-003**	**0.0266**	**5.0000e-005**	**4.2800e-003**	**3.0000e-005**	**4.3100e-003**	**1.1400e-003**	**3.0000e-005**	**1.1700e-003**	**0.0000**	**3.9644**	**3.9644**	**2.2000e-004**	**0.0000**	**3.9691**

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	0.0603	0.6546	0.3894	5.8000e-004		0.0368	0.0368		0.0338	0.0338	0.0000	55.1907	55.1907	0.0165	0.0000	55.5367
Paving	2.8000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0631**	**0.6546**	**0.3894**	**5.8000e-004**		**0.0368**	**0.0368**		**0.0338**	**0.0338**	**0.0000**	**55.1907**	**55.1907**	**0.0165**	**0.0000**	**55.5367**

3.4 Paving - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6900e-003	2.5300e-003	0.0266	5.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	3.9644	3.9644	2.2000e-004	0.0000	3.9691
Total	**1.6900e-003**	**2.5300e-003**	**0.0266**	**5.0000e-005**	**4.2800e-003**	**3.0000e-005**	**4.3100e-003**	**1.1400e-003**	**3.0000e-005**	**1.1700e-003**	**0.0000**	**3.9644**	**3.9644**	**2.2000e-004**	**0.0000**	**3.9691**

3.5 Architectural Coating - 2015

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	1.2853					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9600e-003	0.0630	0.0466	7.0000e-005		5.4100e-003	5.4100e-003		5.4100e-003	5.4100e-003	0.0000	6.2555	6.2555	8.1000e-004	0.0000	6.2726
Total	**1.2952**	**0.0630**	**0.0466**	**7.0000e-005**		**5.4100e-003**	**5.4100e-003**		**5.4100e-003**	**5.4100e-003**	**0.0000**	**6.2555**	**6.2555**	**8.1000e-004**	**0.0000**	**6.2726**

3.5 Architectural Coating - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7200e-003	8.5800e-003	0.0902	1.7000e-004	0.0145	1.2000e-004	0.0146	3.8500e-003	1.1000e-004	3.9600e-003	0.0000	13.4485	13.4485	7.6000e-004	0.0000	13.4645
Total	**5.7200e-003**	**8.5800e-003**	**0.0902**	**1.7000e-004**	**0.0145**	**1.2000e-004**	**0.0146**	**3.8500e-003**	**1.1000e-004**	**3.9600e-003**	**0.0000**	**13.4485**	**13.4485**	**7.6000e-004**	**0.0000**	**13.4645**

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	1.2853					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9600e-003	0.0630	0.0466	7.0000e-005		5.4100e-003	5.4100e-003		5.4100e-003	5.4100e-003	0.0000	6.2555	6.2555	8.1000e-004	0.0000	6.2726
Total	**1.2952**	**0.0630**	**0.0466**	**7.0000e-005**		**5.4100e-003**	**5.4100e-003**		**5.4100e-003**	**5.4100e-003**	**0.0000**	**6.2555**	**6.2555**	**8.1000e-004**	**0.0000**	**6.2726**

3.5 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7200e-003	8.5800e-003	0.0902	1.7000e-004	0.0145	1.2000e-004	0.0146	3.8500e-003	1.1000e-004	3.9600e-003	0.0000	13.4485	13.4485	7.6000e-004	0.0000	13.4645
Total	**5.7200e-003**	**8.5800e-003**	**0.0902**	**1.7000e-004**	**0.0145**	**1.2000e-004**	**0.0146**	**3.8500e-003**	**1.1000e-004**	**3.9600e-003**	**0.0000**	**13.4485**	**13.4485**	**7.6000e-004**	**0.0000**	**13.4645**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Employee Vanpool/Shuttle

Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4809	2.6987	5.9549	0.0116	0.6484	0.0411	0.6895	0.1742	0.0378	0.2119	0.0000	979.3833	979.3833	0.0314	0.0000	980.0425
Unmitigated	0.5544	3.6978	7.3979	0.0164	0.9288	0.0582	0.9869	0.2495	0.0535	0.3030	0.0000	1,388.4498	1,388.4498	0.0436	0.0000	1,389.3651

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	526.63	526.63	526.63	2,417,328	1,687,644
Parking Lot	0.00	0.00	0.00		
Total	526.63	526.63	526.63	2,417,328	1,687,644

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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	20.00	0.00	80.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.432000	0.060000	0.157000	0.142000	0.030000	0.005000	0.046000	0.123000	0.000000	0.000000	0.004000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	282.7721	282.7721	0.0130	2.6900e-003	283.8787
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	294.8822	294.8822	0.0136	2.8000e-003	296.0362
NaturalGas Mitigated	2.5500e-003	0.0232	0.0195	1.4000e-004		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	25.2090	25.2090	4.8000e-004	4.6000e-004	25.3624
NaturalGas Unmitigated	3.6200e-003	0.0329	0.0276	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	35.7978	35.7978	6.9000e-004	6.6000e-004	36.0157

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					
Unrefrigerated Warehouse-No Rail	670826	3.6200e-003	0.0329	0.0276	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	35.7978	35.7978	6.9000e-004	6.6000e-004	36.0157
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**3.6200e-003**	**0.0329**	**0.0276**	**2.0000e-004**		**2.5000e-003**	**2.5000e-003**		**2.5000e-003**	**2.5000e-003**	**0.0000**	**35.7978**	**35.7978**	**6.9000e-004**	**6.6000e-004**	**36.0157**

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					
Unrefrigerated Warehouse-No Rail	472399	2.5500e-003	0.0232	0.0195	1.4000e-004		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	25.2090	25.2090	4.8000e-004	4.6000e-004	25.3624
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**2.5500e-003**	**0.0232**	**0.0195**	**1.4000e-004**		**1.7600e-003**	**1.7600e-003**		**1.7600e-003**	**1.7600e-003**	**0.0000**	**25.2090**	**25.2090**	**4.8000e-004**	**4.6000e-004**	**25.3624**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	83776	23.9739	1.1000e-003	2.3000e-004	24.0677
Unrefrigerated Warehouse-No Rail	946679	270.9083	0.0125	2.5800e-003	271.9685
Total		**294.8822**	**0.0136**	**2.8100e-003**	**296.0362**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	83776	23.9739	1.1000e-003	2.3000e-004	24.0677
Unrefrigerated Warehouse-No Rail	904361	258.7982	0.0119	2.4600e-003	259.8110
Total		**282.7721**	**0.0130**	**2.6900e-003**	**283.8787**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.4670	7.0000e-005	7.3500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0138	0.0138	4.0000e-005	0.0000	0.0147
Unmitigated	2.8526	7.0000e-005	7.3500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0138	0.0138	4.0000e-005	0.0000	0.0147

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	0.5141					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3377					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.3000e-004	7.0000e-005	7.3500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0138	0.0138	4.0000e-005	0.0000	0.0147
Total	**2.8526**	**7.0000e-005**	**7.3500e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0138**	**0.0138**	**4.0000e-005**	**0.0000**	**0.0147**

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	0.1285					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3377					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.3000e-004	7.0000e-005	7.3500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0138	0.0138	4.0000e-005	0.0000	0.0147
Total	**2.4670**	**7.0000e-005**	**7.3500e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0138**	**0.0138**	**4.0000e-005**	**0.0000**	**0.0147**

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

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	234.4866	1.8993	0.0466	288.8179
Unmitigated	293.1082	2.3745	0.0583	361.0590

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	72.4899 / 0	293.1082	2.3745	0.0583	361.0590
Total		**293.1082**	**2.3745**	**0.0583**	**361.0590**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	57.992 / 0	234.4866	1.8993	0.0466	288.8179
Total		**234.4866**	**1.8993**	**0.0466**	**288.8179**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	59.8133	3.5349	0.0000	134.0455
Unmitigated	59.8133	3.5349	0.0000	134.0455

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	294.66	59.8133	3.5349	0.0000	134.0455
Total		**59.8133**	**3.5349**	**0.0000**	**134.0455**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	294.66	59.8133	3.5349	0.0000	134.0455
Total		**59.8133**	**3.5349**	**0.0000**	**134.0455**

9.0 Operational Offroad

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

10.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	56.6400	0.0000	0.0000	56.6400

10.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	80	56.6400	0.0000	0.0000	56.6400
Total		**56.6400**	**0.0000**	**0.0000**	**56.6400**

Kunzman Associates, Inc.

OVER 35 YEARS OF EXCELLENT SERVICE

1111 Town & Country Road, Suite 34
Orange, California 92868
(714) 973-8383

www.traffic-engineer.com