Air Quality Analysis for the Del Mar Village Specific Plan, City of Del Mar, California

Prepared for

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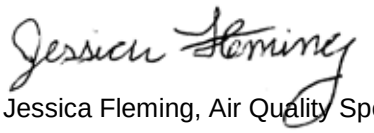

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1.0 Summary

This report evaluates potential local and regional air quality impacts associated with the proposed Del Mar Village Specific Plan (proposed Plan). The 40-acre Village Specific Plan area encompasses the town center of Del Mar and comprises the central business district. The Plan area generally follows a six block portion of Camino del Mar, between 9th Avenue on the south and the Plaza and Hotel Specific Plan areas on the north and includes the commercial properties facing 15th Street, west of Camino del Mar.

As detailed below, emissions due to construction of individual projects are not expected to exceed the applicable thresholds. Future operational emissions of reactive organic gases (ROG), sulphur oxides (SO_x), particulate matter less than 10 microns (PM_{10}), and particulate matter less than 2.5 microns ($PM_{2.5}$) under the proposed Plan are projected to be greater than existing emissions of ROG, SO_x, PM_{10}, and $PM_{2.5}$. This is due to the increased density in the plan area. Despite the increase in vehicle traffic, future emissions of NO_x and carbon monoxide (CO) under the proposed Plan are projected to be less than the existing emissions of NO_x and CO. This is due to the future increased efficiency of the vehicle population. The change in emissions between buildout of the proposed Plan and the existing land uses (2011) are projected to be less than the applicable thresholds for all criteria pollutants. Additionally, the change in emissions between buildout of the proposed Plan and buildout of the existing land uses are projected to be less than the applicable thresholds for all criteria pollutants. Operational emissions would be less than significant.

Additionally, the proposed Plan would not expose sensitive receptors to substantial CO concentrations, diesel particulate matter, or odors.

2.0 Introduction and Project Description

The purpose of this report is to assess potential short- and long-term local and regional air quality impacts resulting from development of the project.

Air pollution affects all southern Californians. Effects can include the following:

- Increased respiratory infection
- Increased discomfort
- Missed days from work and school
- Increased mortality

Polluted air also damages agriculture and our natural environment.

The city of Del Mar is located within the San Diego Air Basin (SDAB), one of 15 air basins that geographically divide the state of California. The SDAB is currently classified as a federal nonattainment area for ozone and a state nonattainment area for particulate matter less than 10 microns (PM_{10}), particulate matter less than 2.5 microns ($PM_{2.5}$), and ozone.

Air quality impacts can result from the construction and operation of projects approved under the proposed Plan. Construction impacts are short-term and result from fugitive dust, equipment exhaust, and indirect effects associated with construction workers and deliveries. Operational impacts can occur on two levels: regional impacts resulting from growth-inducing development or local hot-spot effects stemming from sensitive receivers being placed close to highly congested roadways. In the case of this project, operational impacts would be primarily due to emissions to the basin from mobile sources associated with the vehicular travel along the roadways within the project area.

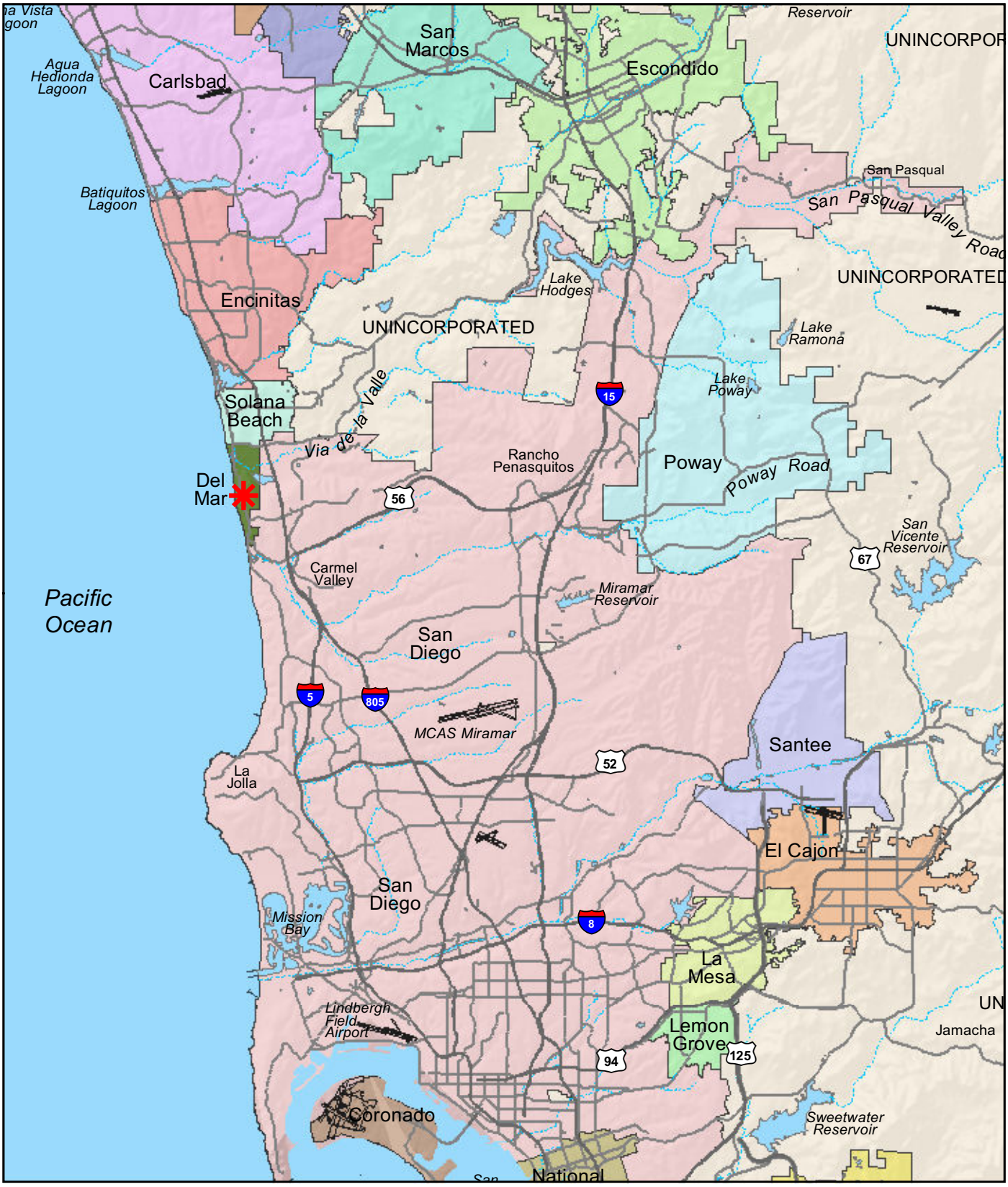
The analysis of impacts is based on state and federal ambient air quality standards and is assessed in accordance with the guidelines, policies, and standards established by the City of Del Mar and the San Diego Air Pollution Control District (SDAPCD). Project compatibility with the adopted air quality plans for the area is also assessed. Measures are recommended, as required, to reduce potentially significant impacts.

2.1 Project Description

The 40-acre Village Specific Plan area encompasses the town center of Del Mar and comprises the central business district. The Plan area generally follows a six block portion of Camino del Mar, between 9th Avenue on the south and the Plaza and Hotel Specific Plan areas on the north and includes the commercial properties facing 15th Street, west of Camino del Mar. Figure 1 shows the regional location. Figure 2 shows an aerial photograph of the plan area and vicinity.

The proposed Village Specific Plan has been prepared as a neighborhood-level planning document that provides updated land use/zoning classifications, development standards, and design guidelines in order to implement the specific land uses envisioned for the Camino del Mar corridor. In addition to being a land use regulatory document, the proposed Village Specific Plan also outlines the framework for the provision of urban amenities and other public improvements associated with anticipated development pursuant to the plan. The study area includes 68 parcels and is approximately 40 acres, of which 25 percent or 10 acres are streets and public rights-of-way.

Existing and proposed land uses comprise a mix of restaurants, retail and personal services, multi-family residential uses, offices, hotel space, and civic uses.



Village Specific Plan Location

FIGURE 1

Regional Location

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Image Source: Aerials Express (flown March 2010)

Village Specific Plan Boundary

FIGURE 2

Project Location on Aerial Photograph

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3.0 Regulatory Framework

Motor vehicles are San Diego County's leading source of air pollution and the largest contributor to greenhouse gases (County of San Diego 2008). In addition to these sources, other mobile sources include construction equipment, trains, and airplanes.

Emission standards for mobile sources are established by state and federal agencies such as the California Air Resources Board (CARB) and the U.S. Environmental Protection Agency (U.S. EPA). Reducing mobile source emissions requires the technological improvement of existing mobile sources and the examination of future mobile sources such as those associated with new or modification projects. The State of California has developed state-wide programs to encourage cleaner cars and cleaner fuels. Since 1996, smog-forming emissions from motor vehicles have been reduced by 15 percent and the cancer risk from exposure to motor vehicle air toxics has been reduced by 40 percent (County of San Diego 2008). The regulatory framework described below details the federal and state agencies that are in charge of monitoring and controlling mobile source air pollutants and the measures currently being taken to achieve and maintain healthful air quality in the SDAB.

In addition to mobile sources, stationary sources also contribute to air pollution in the SDAB. Stationary sources include gasoline stations, power plants, dry cleaners, and other commercial and industrial uses. Stationary sources of air pollution are regulated by the local air pollution control or management district, in this case the SDAPCD.

The state of California is divided geographically into 15 air basins for the purpose of managing the air resources of the state on a regional basis. Areas within each air basin are considered to share the same air masses and, therefore, are expected to have similar ambient air quality. If an air basin is not in either federal or state attainment for a particular pollutant, the basin is classified as a moderate, serious, severe, or extreme nonattainment area (there is also a marginal classification for federal nonattainment areas).

3.1 Federal Regulations

Ambient Air Quality Standards (AAQS) represent the maximum levels of background pollution considered safe, with an adequate margin of safety, to protect the public health and welfare. The federal Clean Air Act (CAA) was enacted in 1970 and amended in 1977 and 1990 [42 U.S.C. 7401] for the purposes of protecting and enhancing the quality of the nation's air resources to benefit public health, welfare, and productivity. In 1971, in order to achieve the purposes of Section 109 of the CAA [42 U.S.C. 7409], the U.S. EPA developed primary and secondary national ambient air quality standards (NAAQS). The current NAAQS are presented in Table 1.

TABLE 1
AMBIENT AIR QUALITY STANDARDS

Pollutant	Averaging Time	California Standards[1]		Federal Standards[2]		
		Concentration[3]	Method[4]	Primary[3,5]	Secondary[3,6]	Method[7]
Ozone (O_3)	1 Hour	0.09 ppm (180 µg/m^3)	Ultraviolet Photometry	–	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.07 ppm (137 µg/m^3)		0.075 ppm (147 µg/m^3)		
Respirable Particulate Matter (PM_{10})	24 Hour	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m^3		–		
Fine Particulate Matter ($PM_{2.5}$)	24 Hour	No Separate State Standard		35 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	15.0 µg/m^3		
Carbon Monoxide (CO)	8 Hour	9.0 ppm (10 mg/m^3)	Non-dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m^3)	None	Non-dispersive Infrared Photometry (NDIR)
	1 Hour	20 ppm (23 mg/m^3)		35 ppm (40 mg/m^3)		
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)		–	–	–
Nitrogen Dioxide (NO_2)	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)	Gas Phase Chemi-luminescence	0.053 ppm (100 µg/m^3)[8]	Same as Primary Standard	Gas Phase Chemi-luminescence
	1 Hour	0.18 ppm (339 µg/m^3)		0.100 ppm[8]	None	
Sulfur Dioxide (SO_2)[9]	24 Hour	0.04 ppm (105 µg/m^3)	Ultraviolet Fluorescence	–	–	Ultraviolet Fluorescence; Spectro-photometry (Pararosaniline Method)[9]
	3 Hour	–		–	0.5 ppm (1300 µg/m^3)[9]	
	1 Hour	0.25 ppm (655 µg/m^3)		0.075 ppm (196 µg/m^3)[9]	–	
Lead[10]	30 Day Average	1.5 µg/m^3	Atomic Absorption	–	–	–
	Calendar Quarter	–		1.5 µg/m^3	Same as Primary Standard	High Volume Sampler and Atomic Absorption
	Rolling 3-Month Average[11]	–		0.15 µg/m^3		
Visibility Reducing Particles	8 Hour	Extinction coefficient of 0.23 per kilometer – visibility of ten miles or more (0.07 – 30 miles or more for Lake Tahoe) due to particles when relative humidity is less than 70 percent. Method: Beta Attenuation and Transmittance through Filter Tape.		No Federal Standards		
Sulfates	24 Hour	25 µg/m^3	Ion Chroma-tography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence			
Vinyl Chloride[10]	24 Hour	0.01 ppm (26 µg/m^3)	Gas Chroma-tography			

SOURCE: State of California 2010

TABLE 1
AMBIENT AIR QUALITY STANDARDS
(continued)

ppm = parts per million; $\mu g/m^3$ = micrograms per cubic meter; – = not applicable.

[1]California standards for ozone, carbon monoxide (except Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, suspended particulate matter—PM10, PM2.5, and visibility reducing particles—are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[2]National standards (other than ozone, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu g/m^3$ is equal to or less than one. For PM2.5, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. Environmental Protection Agency (EPA) for further clarification and current federal policies.

[3]Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[4]Any equivalent procedure which can be shown to the satisfaction of the Air Resources Board to give equivalent results at or near the level of the air quality standard may be used.

[5]National Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.

[6]National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[7]Reference method as described by the EPA. An “equivalent method” of measurement may be used but must have a “consistent relationship to the reference method” and must be approved by the EPA.

[8]To attain this standard, the 3-year average of the 98th percentile of the daily maximum 1-hour average at each monitor within an area must not exceed 0.100 ppm (effective January 22, 2010).

[9]On June 2, 2010, the U.S. EPA established a new 1-hour SO_2 standard, effective August 23, 2010, which is based on the 3-year average of the annual 99^{th} percentile of 1-hour daily maximum concentrations. EPA also proposed a new automated Federal Reference Method (FRM) using ultraviolet technology, but will remain the older pararosaniline methods until the new FRM have adequately permeated State monitoring networks. The EPA also revoked both the existing 24-hour SO_2 standard of 0.14 ppm and the annual primary SO_2 standard of 0.030 ppm, effective August 23, 2010. The secondary SO_2 standard was not revised at that time; however, the secondary standard is undergoing a separate review by EPA.

[10]The ARB has identified lead and vinyl chloride as “toxic air contaminants” with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[11]National lead standard, rolling 3-month average; final rule signed October 15, 2008.

Seven pollutants of primary concern have been designated: ozone (O_3), carbon monoxide (CO), sulfur dioxide (SO_2), nitrogen dioxide (NO_2), lead (Pb), PM_{10}, and $PM_{2.5}$. The primary NAAQS ". . . in the judgment of the Administrator, based on such criteria and allowing an adequate margin of safety, are requisite to protect the public health . . . " and the secondary standards ". . . protect the public welfare from any known or anticipated adverse effects associated with the presence of such air pollutant in the ambient air" (42 U.S.C. 7409(b)(2)). The primary standards were established, with a margin of safety, considering long-term exposure for the most sensitive groups in the general population (i.e., children, senior citizens, and people with breathing difficulties).

3.1.1 Ozone

In 1997, the U.S. EPA promulgated a new 8-hour ozone standard of 8 parts per hundred million (pphm) to replace the existing 1-hour standard of 12 pphm. On June 15, 2004, the portion of the SDAB containing the project site was designated a "basic" nonattainment area for the 8-hour ozone standard under Subpart 1 of Part D of the CAA. Per the U.S. EPA's final Phase 1 rule for implementing the 8-hour ozone standard, the 1-hour ozone standard was to be revoked "in full, including the associated designations and classifications, one year following the effective date of the designations for the eight-hour NAAQS [for ozone]" (69 FR 23951). As such, the 1-hour ozone standard was revoked in the SDAB on June 15, 2005. Requirements for transitioning from the 1-hour to 8-hour ozone standard are described in the final rule.

However, because of subsequent litigation concerning the Phase 1 implementation rule, the provisions of the 8-hour ozone standard Phase 1 implementation rule that placed 8-hour ozone non-attainment areas under Subpart 1, part D, Title I of the CAA instead of Subpart 2 were vacated. Consequently, on January 16, 2009, it was proposed that the SDAB be classified as "moderate" nonattainment for the 8-hour ozone standard under Subpart 2 (U.S. EPA 2009a). Under Subpart 2, consistent with Section 182 of the CAA, the period of attainment for areas designated as moderate nonattainment will be no more than six years from the effective date of designation (U.S. EPA 2009a). Because the effective date of designation for the 8-hour ozone standard was June 15, 2004, attainment of the 8-hour ozone standard for the SDAB was to occur by June 15, 2010. Attainment of the 1997 8-hour ozone standard was not demonstrated as of June 15, 2010. Therefore, the U.S. EPA could choose to re-designate the SDAB a serious nonattainment area for the 1997 8-hour ozone standard. To date, redesignation of the basin has not occurred, and recent data indicate that the 1997 standard was attained in 2011.

On March 12, 2008, the U.S. EPA revised the 8-hour ozone standard to 7.5 pphm. On March 12, 2009, CARB submitted its recommendations for area designations for the revised federal 8-hour ozone standard. The recommendations were based on ozone measurements collected during 2006 through 2008. It was recommended that the SDAB be classified as nonattainment for the revised standard. The U.S. EPA was required to issue final area

designations no later than March 2010. However, there was insufficient information to make these designations, and the U.S. EPA extended the deadline to March 2011. However, criticism of the standards proposed in March 2008 resulted in the reconsideration of those standards by the U.S. EPA. On January 16, 2010, the U.S. EPA again proposed revision of the 8-hour ozone standards. The U.S. EPA proposed to set the primary standard at a level ranging between 6 and 7 pphm. The U.S. EPA also proposed establishing a distinct cumulative, seasonal "secondary" standard, designed to protect sensitive vegetation and ecosystems, including forests, parks, wildlife refuges, and wilderness areas. The U.S. EPA proposed to set the secondary standard at a level within the range of 7–15 parts per million-hours (ppm-hours).

The U.S. EPA was to issue final standards by August 31, 2010, but to date this has not occurred. Rather, on December 8, 2010 the U.S. EPA Administrator asked the Clean Air Scientific Advisory Committee (CASAC) for further interpretation of the epidemiological and clinical studies used to make their recommendation. On January 26, 2011, the U.S. EPA provided "charge questions" to the CASAC regarding the reconsideration of the 2008 ozone standards. The U.S. EPA reviewed the additional input CASAC provided and set the final 8-hour ozone standard to 0.070 parts per million (ppm) in July 2011. However, the new standard has not gone into effect. On September 2, 2011, President Obama directed the U.S. EPA to withdraw the draft revised ozone NAAQS. Therefore, the U.S. EPA will continue to implement the standards set during the previous administration (2008 8-hour ozone) while the ongoing five-year review of the updated science continues, which is scheduled to be completed in 2013.

3.1.2 Particulates

The SDAB is an unclassified area for the federal PM_{10} standard and an attainment area for the federal $PM_{2.5}$ standard. On September 21, 2006, the U.S. EPA revised the NAAQS for particulate matter. The 24-hour $PM_{2.5}$ standard was strengthened from 65 micrograms per cubic meter ($\mu g/m^3$) to 35 $\mu g/m^3$. The existing standard for annual $PM_{2.5}$ of 15 $\mu g/m^3$ remained the same. In addition, the U.S. EPA also revised the standard for PM_{10}. Due to a lack of evidence linking health problems to long-term exposure to coarse particle pollution, the agency revoked the annual PM_{10} standard (effective December 17, 2006). The SDAB was classified as attainment for the new 24-hour $PM_{2.5}$ standard (U.S. EPA 2009b).

3.1.3 Sulphur Dioxide

On June 22, 2010, the U.S. EPA finalized a new 1-hour SO_2 standard, effective August 23, 2010 (75 FR 35520). The revised standard is based on the three-year average of the annual 99th percentile of 1-hour daily maximum concentrations. The U.S. EPA also revoked both the existing 24-hour SO_2 standard of 0.14 ppm and the annual primary SO_2 standard of 0.030 ppm, effective August 23, 2010. The U.S. EPA intends to complete designations for the new standards within two years of promulgation, which would be June 2012. Areas

designated nonattainment would be required to submit state implementation plans (SIPs) within two years that demonstrate how the standard would be met no later than August 2017. All other areas would be required to submit maintenance plans by June 2013.

The secondary standards for SO_2 are undergoing separate review. On July 12, 2011 the U.S. EPA recommended that the existing secondary SO_2 standards be retained, and recommended a new additional secondary standard of 75 parts per billion (ppb) averaged over one hour (76 FR 46084).

The SDAB is an attainment area for the old SO_2 standards.

3.1.4 Nitrogen Dioxide

On January 22, 2010, the U.S. EPA strengthened the 1-hour NO_2 standard to 100 parts per billion (ppb) based on the three-year average of the 98th percentile of the annual distribution of daily maximum 1-hour average concentrations. The annual NO_2 standard of 53 ppb remained unchanged. The U.S. EPA intends to complete designations for the new standards within two years of promulgation, which would be by January 2012. To date this has not occurred.

To determine compliance with the new standard, the new NO_2 rule also establishes a new ambient air monitoring network and reporting requirements. Once the expanded network of NO_2 monitors is fully deployed and three years of air quality data have been collected, the U.S. EPA intends to redesignate areas in 2016 or 2017, as appropriate, based on the air quality data from the new monitoring network.

All areas of the state, including the SDAB, are either unclassified or in attainment of the previous NO_2 standards.

3.1.5 Lead

In 2008, the U.S. EPA revised the primary standard for lead from 1.5 µg/m^3 to 0.15 µg/m^3 over a rolling three-month period, and revised the secondary standard to be identical to the primary standard. The 1978 lead NAAQS will be retained until one year after designations for the new standards, except in current nonattainment areas. The SDAB is in attainment of the 1978 lead NAAQS.

CARB was required to provide the U.S. EPA with designation recommendations by October 2009. On October 14, 2009 the CARB recommended to the U.S. EPA that the SDAB be designated unclassifiable for the new lead standard. Although the CARB was required to make area designation recommendations by October 2009, the U.S. EPA recognized that the current lead sampling network was not adequate in most areas. Therefore, the U.S. EPA may take an additional two years to designate areas with insufficient data. New lead samplers will be deployed during this time period to collect additional data needed to identify

designations for many areas with no or limited monitoring data. The final lead ambient air monitoring requirements were established by the EPA on December 14, 2010. It is unknown at this time how this may affect the designation of the SDAB, and no designation action has occurred to date.

3.1.6 Carbon Monoxide

The U.S. EPA first set air quality standards for CO in 1971. For protection of both public health and welfare, the U.S. EPA set an 8-hour primary standard at 9 ppm and a 1-hour primary standard at 35 ppm. In a review of the standards completed in 1985, the U.S. EPA revoked the secondary standards (for public welfare) due to a lack of evidence of adverse effects on public welfare at or near ambient concentrations. The last review of the CO NAAQS was completed in 1994, and the U.S. EPA chose not to revise the standards at that time. The SDAB is a maintenance area for CO.

3.2 State Regulations

3.2.1 California Ambient Air Quality Standards

The U.S. EPA allows states the option to develop different (stricter) standards. The State of California generally has set more stringent limits on the seven criteria pollutants (see Table 1). In addition to the federal criteria pollutants, the CAAQS also specify standards for visibility reducing particles, sulfates, hydrogen sulfide, and vinyl chloride (see Table 1). The SDAB is a nonattainment area for the state ozone standards, the state PM_{10} standard, and the state $PM_{2.5}$ standard. It is in attainment for the state's standards for all of the other criteria air pollutants.

3.2.2 California Clean Air Act

The California CAA, also known as the Sher Bill, or Assembly Bill (AB) 2595, was signed into law on September 30, 1988, and became effective on January 1, 1989. The California CAA requires that districts implement regulations to reduce emissions from mobile sources through the adoption and enforcement of transportation control measures. The California CAA requires that a district must (South Coast Air Quality Management District [SCAQMD] 2007):

- Demonstrate the overall effectiveness of the air quality program;
- Reduce nonattainment pollutants at a rate of 5 percent per year, or include all feasible measures and expeditious adoption schedule;

- Reduce population exposure to severe nonattainment pollutants according to a prescribed schedule; and
- Rank control measures by cost-effectiveness.

Through statewide programs to encourage cleaner cars and cleaner fuels, California has, since 1996, reduced smog-forming emissions from motor vehicles by 15 percent and the cancer risk from exposure to motor vehicle air toxics by 40 percent (County of San Diego 2008).

3.3 Toxic Air Contaminants

The public's exposure to toxic air contaminants (TACs) is a significant public health issue in California. Concentrations of CO, called hot spots, and diesel-exhaust particulate matter emissions have been established as TACs. In 1983, the California Legislature enacted a program to identify the health effects of TACs and to reduce exposure to these contaminants to protect the public health (AB 1807: Health and Safety Code Sections 39650–39674). The Legislature established a two-step process to address the potential health effects from TACs. The first step is the risk assessment (or identification) phase. The second step is the risk management (or control) phase of the process.

In addition to this two-step program, the California Air Toxics Program establishes the process for the identification and control of toxic air contaminants and includes provisions to make the public aware of significant toxic exposures and for reducing risk. The Children's Environmental Health Protection Act, Senate Bill 25 (Chapter 731, Escutia, Statutes of 1999), focuses on children's exposure to air pollutants. The Act requires CARB to review its air quality standards from a children's health perspective, evaluate the statewide air monitoring network, and develop any additional air toxic control measures needed to protect children's health. Locally, toxic air pollutants are regulated through the SDAPCD's Regulation XII.

The SDAPCD also started sampling for TACs at the Chula Vista and El Cajon monitoring stations in the mid-1980s. Once every 12 days, 24-hour samples are performed. Excluding diesel particulates, Chula Vista has shown a 72 percent reduction in the ambient incremental cancer risk from TACs since 1989, while El Cajon has shown a 73 percent reduction during the same period. In 2008, the estimated ambient incremental cancer risk was 135 in one million for Chula Vista and 150 in one million for El Cajon, down from 481 and 545 in one million, respectively, in 1989 (County of San Diego 2010).

Additionally, the SDAPCD implements rules and regulations for the control of toxic air contaminants through mandatory permitting of stationary and portable major emitters of air pollutants.

The Air Toxics "Hot Spots" Information and Assessment Act (AB 2588, 1987, Connelly) was enacted in 1987 and requires stationary sources to report the types and quantities of certain substances routinely released into the air. The goals of the Air Toxics "Hot Spots" Act are to collect emission data, identify facilities having localized impacts, ascertain health risks, notify nearby residents of significant risks, and reduce those significant risks to acceptable levels.

Diesel emissions within the region generated from diesel-fueled vehicles pose a potential hazard to residents and visitors. Following the identification of diesel particulate matter as an air toxic in 1998, CARB has worked on developing strategies and regulations aimed at reducing the risk from diesel particulate matter. The overall strategy for achieving these reductions is found in the *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles* (State of California 2000). A stated goal of the plan is to reduce the cancer risk statewide arising from exposure to diesel particulate matter 75 percent by 2010 and 85 percent by 2020.

A number of programs and strategies to reduce diesel particulate matter that have been implemented or are in the process of being developed include (State of California 2007, 2008):

- **The Carl Moyer Memorial Air Quality Standards Attainment Program:** This program, administered by CARB, was initially approved in February 1999 and provides incentive grants to cover an incremental portion of the cost of upgrading to cleaner-than-required engines, equipment and other sources of pollution providing early or extra emission reductions. Eligible projects include cleaner on-road, off-road, marine, locomotive, and agricultural sources. The program guidelines are revised regularly (most recently in January 2011).

- **On-road Heavy-duty Diesel Engine Reduced Emission Standards**: This rule reduces emission standards for 2007 and subsequent model year heavy-duty diesel engines (66 FR 5002, January 18, 2001).

- **On-Road Heavy-duty Diesel Engine In-Use Compliance Program**: This program requires in-use compliance testing to ensure that existing vehicles/engines meet applicable emission standards throughout their useful life.

Other programs include:

- **Off-road Mobile Sources Emission Reduction Program:** The goal of this program is to develop regulations to control emissions from diesel, gasoline, and alternative-fueled off-road mobile engines. These sources include a range of equipment, from lawn mowers to construction equipment to locomotives.

- **Heavy-duty Vehicle Inspection and Periodic Smoke Inspection Programs:** The Heavy-Duty Vehicle Inspection and Periodic Smoke Inspection Programs were established to control excessive smoke emissions and tampering from heavy-duty diesel trucks and buses.

  - **Heavy-Duty Vehicle Inspection Program:** The Heavy-Duty Vehicle Inspection Program was adopted into law in 1988 (SB 1997), with the regulations (13 CCR 2180-2189) governing this program last amended in 2007. The program requires heavy-duty trucks and buses to be inspected for excessive smoke and tampering, and engine certification label compliance. Any heavy-duty vehicle traveling in California, including vehicles registered in other states and foreign countries, may be tested. Tests are performed by CARB inspection teams at border crossings, California Highway Patrol weigh stations, fleet facilities, and randomly selected roadside locations.

  - **Periodic Smoke Inspection Program:** The Periodic Smoke Inspection Program was adopted into law in 1990 (Senate Bill 2330), with the regulations (13 CCR 2190-2194) governing this program last amended in 2007. The program requires that diesel and bus fleet owners conduct annual smoke opacity inspections of their vehicles and repair those with excessive smoke emissions to ensure compliance.

- **Lower-Emission School Bus Program:** Under this program, and in coordination with the California Energy Commission and local air districts, CARB developed guidelines to provide criteria for the purchase of new school buses and the retrofit of existing school buses to reduce particulate matter emissions. In addition, Proposition 1B, which was approved by the voters on November 7, 2006, enacts the Highway Safety, Traffic Reduction, Air Quality, and Port Security Bond Act of 2006. This bond act authorizes $200 million for replacing and retrofitting school buses.

- **School Bus Idling Airborne Toxic Control Measure**: Beginning in July 2003, the CARB approved an airborne toxic control measure (ATCM) that limits school bus idling and idling at or near schools. The ATCM to limit idling is intended to reduce diesel exhaust particulate matter and other TACs and air pollutants from heavy-duty motor vehicle exhaust. The ATCM requires a driver of a school bus or vehicle, transit bus, or other commercial motor vehicle to manually turn off the bus or vehicle engine upon arriving at a school and to restart no more than 30 seconds before departing. A driver of a school bus or vehicle is subject to the same requirement when operating within 100 feet of a school and is prohibited from idling more than five minutes at each stop beyond schools, such as parking or maintenance facilities, school bus stops, or school activity destinations. A driver of a transit bus or other commercial motor vehicle is prohibited from idling more than five minutes at each stop within 100 feet of a school. Idling necessary for health, safety, or operational concerns is exempt from these restrictions.

As an ongoing process, CARB will continue to establish new programs and regulations for the control of diesel particulate emissions as appropriate. The continued development and implementation of these programs and policies will ensure that the public exposure to diesel particulate matter will continue to decline.

3.4 State Implementation Plan

The SIP is a collection of documents that set forth the state's strategies for achieving the federal air quality standards. The SDAPCD is responsible for preparing and implementing the portion of the SIP applicable to the SDAB. The SDAPCD adopts rules, regulations, and programs to attain state and federal air quality standards, and appropriates money (including permit fees) to achieve these objectives.

3.5 The California Environmental Quality Act

Section 15125(d) of the California Environmental Quality Act (CEQA) Guidelines requires discussion of any inconsistencies between the project and applicable general plans and regional plans, including the applicable air quality attainment or maintenance plan (or SIP).

3.6 San Diego Air Pollution Control District

The SDAPCD is the agency that regulates air quality in the SDAB. The SDAPCD prepared the 1991/1992 Regional Air Quality Strategy (RAQS) in response to the requirements set forth in the CAA AB 2595. Attached, as part of the RAQS, are the Transportation Control Measures (TCMs) for the air quality plan prepared by the San Diego Association of Governments (SANDAG) in accordance with AB 2595 and adopted by SANDAG on March 27, 1992, as Resolution Number 92-49 and Addendum. The RAQS and TCM set forth the steps needed to accomplish attainment of state ambient air quality standards. The required triennial updates of the RAQS and corresponding TCM were adopted in 1995, 1998, 2001, 2004, and 2009.

The SDAPCD has also established a set of rules and regulations initially adopted on January 1, 1969, and periodically reviewed and updated. These rules and regulations are available for review on the agency's web site.

4.0 Environmental Setting

4.1 Geographic Setting

The Plan area is located within the western portion of the SDAB, which encompasses the entire County of San Diego. The westerly, coastal areas of the SDAB typically experience westerly winds which direct pollutants eastward, as described below. The eastern portion of the SDAB is surrounded by mountains to the north, east, and south. These mountains tend to restrict airflow and concentrate pollutants in the valleys and low-lying areas below.

4.2 Climate

The Plan area is located about 0.25 mile east of the Pacific Ocean and, like the rest of San Diego County's coastal areas, has a Mediterranean climate characterized by warm, dry summers and mild, wet winters. The mean annual temperature for the Plan area is 63 degrees Fahrenheit (°F). The average annual precipitation is 10 inches, falling primarily from November to April. Winter low temperatures in the Plan area average about 49°F, and summer high temperatures average about 74°F. The average relative humidity is 69 percent and is based on the yearly average humidity at Lindbergh Field (Western Regional Climate Center [WRCC 2011]).

The dominant meteorological feature affecting the region is the Pacific High Pressure Zone, which produces the prevailing westerly to northwesterly winds. These winds tend to blow pollutants away from the coast toward the inland areas. Consequently, air quality near the coast is generally better than that which occurs at the base of the coastal mountain range.

Fluctuations in the strength and pattern of winds from the Pacific High Pressure Zone interacting with the daily local cycle produce periodic temperature inversions that influence the dispersal or containment of air pollutants in the SDAB. Beneath the inversion layer pollutants become "trapped" as their ability to disperse diminishes. The mixing depth is the area under the inversion layer. Generally, the morning inversion layer is lower than the afternoon inversion layer. The greater the change between the morning and afternoon mixing depths, the greater the ability of the atmosphere to disperse pollutants.

Throughout the year, the height of the temperature inversion in the afternoon varies between approximately 1,500 and 2,500 feet above mean sea level (MSL). In winter, the morning inversion layer is about 800 feet above MSL. In summer, the morning inversion layer is about 1,100 feet above MSL. Therefore, air quality generally tends to be better in the winter than in the summer.

The prevailing westerly wind pattern is sometimes interrupted by regional "Santa Ana" conditions. A Santa Ana occurs when a strong high pressure develops over the Nevada–Utah area and overcomes the prevailing westerly coastal winds, sending strong, steady, hot, dry northeasterly winds over the mountains and out to sea.

Strong Santa Anas tend to blow pollutants out over the ocean, producing clear days. However, at the onset or during breakdown of these conditions or if the Santa Ana is weak, local air quality may be adversely affected. In these cases, emissions from the South Coast Air Basin (SCAB) to the north are blown out over the ocean, and low pressure over Baja California draws this pollutant-laden air mass southward. As the high pressure weakens, prevailing northwesterly winds reassert themselves and send this cloud of contamination ashore in the SDAB. When this event does occur, the combination of transported and locally produced contaminants produce the worst air quality measurements recorded in the basin.

4.3 Existing Air Quality

Air quality at a particular location is a function of the kinds, amounts, and dispersal rates of pollutants being emitted into the air locally and throughout the basin. The major factors affecting pollutant dispersion are wind speed and direction, the vertical dispersion of pollutants (which is affected by inversions), and the local topography.

Air quality is commonly expressed as the number of days in which air pollution levels exceed state standards set by the CARB or federal standards set by the U.S. EPA. The SDAPCD maintains 10 air-quality monitoring stations located throughout the greater San Diego metropolitan region. Air pollutant concentrations and meteorological information are continuously recorded at these 10 stations. Measurements are then used by scientists to help forecast daily air pollution levels. Table 2 summarizes the number of days per year during which state and federal standards were exceeded in the SDAB overall during the years 2006 to 2010.

The Del Mar–Mira Costa College monitoring station, located 0.25 mile south of the Plan area, the San Diego–Overland monitoring station, located 11.67 miles southeast of the Plan area, and the San Diego–Union Street monitoring station, located 16.81 miles south of the Plan area, are the nearest stations to the Plan area. The Del Mar–Mira Costa College monitoring station measures ozone. The San Diego–Overland monitoring station measures ozone, NO_2, PM_{10}, and $PM_{2.5.}$ The San Diego–Union Street monitoring station measures CO. Table 3 provides a summary of measurements of ozone, CO, NO_2, PM_{10}, and $PM_{2.5}$ collected at the Del Mar–Mira Costa College, San Diego–Overland, and San Diego–Union Street monitoring stations from 2006–2010.

4.3.1 Ozone

Nitrogen oxides and hydrocarbons (reactive organic gases) are known as the chief "precursors" of ozone. These compounds react in the presence of sunlight to produce O_3, which is the primary air pollution problem in the SDAB. Because sunlight plays such an important role in its formation, O_3 pollution, or smog, is mainly a concern during the daytime in summer months. The SDAB is currently designated a federal and state nonattainment area for ozone. During the past 20 years, San Diego had experienced a decline in the number of days with unhealthy levels of O_3 despite the region's growth in population and vehicle miles traveled (County of San Diego 2008).

About half of smog-forming emissions come from automobiles. Population growth in San Diego County has resulted in a large increase in the number of automobiles expelling O_3-forming pollutants while operating on area roadways. In addition, the occasional transport of smog-filled air from the SCAB only adds to the SDAB's O_3 problem. Stricter automobile emission controls, including more efficient automobile engines, have played a large role in why O_3 levels have steadily decreased.

In the SDAB overall, during the five-year period of 2006 to 2010 the state 1-hour O_3 standard of 0.09 ppm was exceeded 23 days in 2006, 21 days in 2007, 18 days in 2008, 8 days in 2009, and 7 days in 2010.

The 1-hour state standard for O_3 of 0.09 ppm was exceeded four times at the Del Mar–Mira Costa College monitoring station and nine times at the San Diego–Overland Avenue monitoring station during the five-year period of 2006 to 2010.

In order to address adverse health effects due to prolonged exposure, the U.S. EPA phased out the national 1-hour O_3 standard and replaced it with the more protective 8-hour ozone standard. The SDAB is currently a nonattainment area for the previous (1997) national 8-hour standard and is recommended as a nonattainment area for the revised (2008) national 8-hour standard of 0.075 ppm.

In the SDAB overall, the revised national 8-hour standard of 0.075 was exceeded by 38 days in 2006, 27 days in 2007, 35 days in 2008, 24 days in 2009, and 14 days in 2010. The stricter state 8-hour ozone standard of 0.07 ppm was exceeded by 68 days in 2006, 50 days in 2007, 69 days in 2008, 47 days in 2009, and 21 days in 2010.

The revised national 8-hour standard of 0.075 ppm was exceeded seven times at the Del Mar–Mira Costa College monitoring station and nine times at the San Diego–Overland Avenue during the 5-year period from 2006 to 2010. The stricter state 8-hour ozone standard of 0.07 ppm was exceeded 21 times at the Del Mar–Mira Costa College monitoring station and 25 times at the San Diego–Overland Avenue during the 5-year period from 2006 to 2010.

TABLE 2
AMBIENT AIR QUALITY SUMMARY – SAN DIEGO AIR BASIN

Pollutant	Average Time	California Ambient Air Quality Standards[a]	Attainment Status	National Ambient Air Quality Standards[b]	Attainment Status[c]	Maximum Concentration					Number of Days Exceeding State Standard					Number of Days Exceeding National Standard				
						2006	2007	2008	2009	2010	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
O_3	1 hour	0.09 ppm	N	N/A	N/A	0.121	0.134	0.139	0.119	0.107	23	21	18	8	7	0	1	2	0	0
O_3	8 hours	0.07ppm	N	0.075 ppm	N	0.100	0.092	0.110	0.098	0.088	68	50	69	47	21	38	27	35	24	14
CO	1 hour	20 ppm	A	35 ppm	A	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na
CO	8 hours	9 ppm	A	9 ppm	A	3.61	5.18	3.51	3.24	2.46	0	0	0	0	0	0	0	0	0	0
NO_2	1 hour	0.18 ppm	A	0.100 ppm[d]	A	0.097	0.101	0.123	0.091	0.091	0	0	0	0	0	--	--	--	--	--
NO_2	Annual	0.030 ppm	A	0.053 ppm	A	0.017	0.015	0.015	0.016	0.013	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX
SO_2	1 hour	0.25 ppm	A	0.075 ppm	A	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na
SO_2	3 hours	N/A	N/A	N/A	N/A	Na	Na	Na	Na	Na	--	--	--	--	--	--	--	--	--	--
SO_2	24 hours	0.04 ppm	A	N/A	N/A	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	--	--	--	--	--
PM_{10}	24 hours	50 $\mu g/m^3$	N	150 $\mu g/m^3$	U	134.0	392.0	158.0	123.0	108.0	27/159.4*	27/158.6*	30/163.4*	25/146.4*	22/136.0*	0*	1*	1*	0*	0*
PM_{10}	Annual	20 $\mu g/m^3$	N	N/A	N/A	54.0	58.4	56.1	53.9	47.0	EX	EX	EX	EX	EX	--	--	--	--	--
$PM_{2.5}$	24 hours	N/A	N/A	35 $\mu g/m^3$	A	63.3	151.0	44.0	78.4	52.2	--	--	--	--	--	2.1	11.4	3.5	3.4	2.0
$PM_{2.5}$	Annual	12 $\mu g/m^3$	N	15 $\mu g/m^3$	A	13.1	13.3	14.9	12.2	10.8	EX	EX	EX	EX	EX	NX	NX	NX	NX	NX

SOURCE: State of California 2011. California Air Quality Data Statistics. California Air Resources Board Internet Site. URL http://www.arb.ca.gov/adam/welcome.html.
*Measured Days/Calculated Days - Calculated days are the estimated number of days that a measurement would have been greater than the level of the standard had measurements been collected every day. The number of days above the standard is not necessarily the number of violations of the standard for the year. Data to determine federal calculated days were not available.
[a]California standards for ozone, carbon monoxide (except at Lake Tahoe), sulfur dioxide (1-hour and 24-hour), nitrogen dioxide, and PM_{10} are values that are not to be exceeded. Some measurements gathered for pollutants with air quality standards that are based upon 1-hour, 8-hour, or 24-hour averages, may be excluded if the CARB determines they would occur less than once per year on average.
[b]National standards other than for ozone and particulates, and those based on annual averages or annual arithmetic means are not to be exceeded more than once a year. The 1-hour ozone standard is attained if, during the most recent 3-year period, the average number of days per year with maximum hourly concentrations above the standard is equal to or less than one.
[c]A = attainment; N = non-attainment; U = Unclassifiable; N/A = not applicable; Na = data not available; NX = annual average not exceeded; EX = annual average exceeded.
[d]Effective January 22, 2010. Not applicable to monitoring from 2005 through 2009.
ppm = parts per million, $\mu g/m^3$ = micrograms per cubic meter.

TABLE 3
SUMMARY OF AIR QUALITY MEASUREMENTS RECORDED AT THE DEL MAR–MIRA COSTA COLLEGE, SAN DIEGO–OVERLAND, AND SAN DIEGO–UNION STREET MONITORING STATIONS

Pollutant/Standard	2006	2007	2008	2009	2010
DEL MAR—MIRA COSTA COLLEGE					
Ozone					
Days State 1-hour Standard Exceeded (0.09 ppm)	0	1	2	1	0
Days State 8-hour Standard Exceeded (0.07 ppm)	1	4	11	3	2
Days Federal 1-hour Standard Exceeded (0.12 ppm)	0	0	0	0	0
Days '08 Federal 8-hour Standard Exceeded (0.075 ppm)	0	3	3	1	0
Max. 1-hr (ppm)	0.086	0.110	0.117	0.097	0.085
Max 8-hr (ppm)	0.074	0.079	0.079	0.084	0.072
SAN DIEGO—OVERLAND AVENUE					
Ozone					
Days State 1-hour Standard Exceeded (0.09 ppm)	1	0	4	2	2
Days State 8-hour Standard Exceeded (0.07 ppm)	2	5	12	3	3
Days Federal 1-hour Standard Exceeded (0.12 ppm)	0	0	0	0	0
Days '08 Federal 8-hour Standard Exceeded (0.075 ppm)	1	2	5	1	0
Max. 1-hr (ppm)	0.108	0.088	0.100	0.105	0.100
Max 8-hr (ppm)	0.092	0.076	0.093	0.082	0.074
Nitrogen Dioxide					
Days State 1-hour Standard Exceeded (0.18 ppm)	0	0	0	0	0
Max 1-hr (ppm)	0.091	0.087	0.077	0.060	0.073
Annual Average (ppm)	0.017	0.015	0.014	0.014	0.013
PM_{10}*					
Measured Days State 24-hour Standard Exceeded (50 $\mu g/m^3$)	0	1	0	0	0
Calculated Days State 24-hour Standard Exceeded (50 $\mu g/m^3$)	0	6.1	0	0	0
Measured Days Federal 24-hour Standard Exceeded (150 $\mu g/m^3$)	0	0	0	0	0
Calculated Days Federal 24-hour Standard Exceeded (150 $\mu g/m^3$)	0	0	0	0	0
Max. Daily ($\mu g/m^3$)	42.0	65.0	41.0	50.0	33.0
State Annual Average ($\mu g/m^3$)	22.6	23.6	23.8	24.9	18.7
Federal Annual Average ($\mu g/m^3$)	22.5	23.2	23.5	24.7	18.6
$PM_{2.5}$*					
Measured Days '97 Federal 24-hour Standard Exceeded (65 $\mu g/m^3$)	0	0	0	0	0
Calculated Days '97 Federal 24-hour Standard Exceeded (65 $\mu g/m^3$)	0	Na	Na	0	0
Measured Days '06 Federal 24-hour Standard Exceeded (35 $\mu g/m^3$)	0	0	0	0	0
Calculated Days '06 Federal 24-hour Standard Exceeded (35 $\mu g/m^3$)	0	Na	Na	0	0
Max. Daily ($\mu g/m^3$)	26.3	30.6	27.2	25.1	18.7
State Annual Average ($\mu g/m^3$)	Na	Na	Na	10.5	8.7
Federal Annual Average ($\mu g/m^3$)	11.0	Na	Na	10.5	8.7
SAN DIEGO—UNION STREET					
Carbon Monoxide					
Days State 1-hour Standard Exceeded (20 ppm)	0	0	0	0	Na
Days State 8-hour Standard Exceeded (9 ppm)	0	0	0	0	0
Days Federal 1-hour Standard Exceeded (35 ppm)	0	0	0	0	Na
Days Federal 8-hour Standard Exceeded (9 ppm)	0	0	0	0	0
Max. 1-hr (ppm)	Na	Na	Na	Na	Na
Max. 8-hr (ppm)	3.5	5.18	2.24	Na	Na

SOURCE: State of California 2011.
Na = Not available.
*Calculated days value. Calculated days are the estimated number of days that a measurement would have been greater than the level of the standard had measurements been collected every day. The number of days above the standard is not necessarily the number of violations of the standard for the year.

Not all of the O_3 within the SDAB is derived from local sources. Under certain meteorological conditions, such as during Santa Ana wind events, O_3 and other pollutants are transported from the Los Angeles Basin and combine with O_3 formed from local emission sources to produce elevated O_3 levels in the SDAB.

Local agencies can control neither the source nor the transportation of pollutants from outside the air basin. The SDAPCD's policy, therefore, has been to control local sources effectively enough to reduce locally produced contamination to clean air standards.

Through the use of air pollution control measures outlined in the RAQS, the SDAPCD has effectively reduced O_3 levels in the SDAB.

Actions that have been taken in the SDAB to reduce O_3 concentrations include:

- **TCMs, if vehicle travel and emissions exceed attainment demonstration levels.** TCMs are strategies that will reduce transportation-related emissions by reducing vehicle use or improving traffic flow.

- **Enhanced motor vehicle inspection and maintenance program.** The smog-check program is overseen by the Bureau of Automotive Repair. The program requires most vehicles to pass a smog test once every two years before registering in the State of California. The smog-check program monitors the amount of pollutants automobiles produce. One focus of the program is identifying "gross polluters," or vehicles that exceed two times the allowable emissions for a particular model. Regular maintenance and tune-ups, changing oil, and checking tire inflation can improve gas mileage and lower air pollutant emissions. It can also reduce traffic congestion due to preventable breakdowns, further lowering emissions.

- **Air Quality Improvement Program (AQIP).** The AQIP, established by Assembly Bill 118, is a voluntary incentive program administered by the CARB to fund clean vehicle and equipment projects, research on biofuels production, and the air quality impacts of alternative fuels, and workforce training.

4.3.2 Carbon Monoxide

The SDAB is classified as a state attainment area and as a federal maintenance area for carbon monoxide (County of San Diego 1998). Until 2003, no violations of the state standard for CO had been recorded in the SDAB since 1991, and no violations of the national standard had been recorded in the SDAB since 1989. The violations that took place in 2003 were likely the result of massive wildfires that occurred throughout the county. No violations of the state or federal CO standards have occurred since 2003. As shown in Tables 2 and 3, the state and national standards have not been exceeded at the San Diego–Union Street monitoring station or the SDAB during the five-year period from 2006 to 2010.

Small-scale, localized concentrations of CO above the state and national standards have the potential to occur at intersections with stagnation points such as those that occur on major highways and heavily traveled and congested roadways.

4.3.3 PM_{10}

PM_{10} is particulate matter with an aerodynamic diameter of 10 microns or less. Ten microns is about one-seventh of the diameter of a human hair. Particulate matter is a complex mixture of very tiny solid or liquid particles composed of chemicals, soot, and dust. Sources of PM_{10} emissions in the SDAB consist mainly of urban activities, dust suspended by vehicle traffic, and secondary aerosols formed by reactions in the atmosphere.

Under typical conditions (i.e., no wildfires) particles classified under the PM_{10} category are mainly emitted directly from activities that disturb the soil including travel on roads and construction, mining, or agricultural operations. Other sources include windblown dust, salts, brake dust, and tire wear (County of San Diego 1998). For several reasons hinging on the area's dry climate and coastal location, the SDAB has special difficulty in developing adequate tactics to meet present state particulate standards.

The SDAB is designated as federal unclassified and state nonattainment for PM_{10}. The measured federal PM_{10} standard was exceeded once in 2007 and once in 2008 in the SDAB. The 2007 exceedance occurred on October 21, 2007, at a time when major wildfires were raging throughout the county. Consequently, this exceedance was likely caused by the wildfires and would be beyond the control of the SDAPCD. As such, this event is covered under the U.S. EPA's Natural Events Policy that permits, under certain circumstances, the exclusion of air quality data attributable to uncontrollable natural events (e.g., volcanic activity, wild land fires, and high wind events). The 2008 exceedance did not occur during a wildfire and is not covered under this policy. The stricter state standard was exceeded a calculated number of 159.4 days in 2006, 158.6 days in 2007, 163.4 days in 2008, 146.4 days in 2009, and 136.0 days in 2010. Calculated days are the estimated number of days that a measurement would have been greater than the level of the standard, had measurements been collected every day. Particulate measurements are collected every six days.

At the San Diego–Overland Avenue monitoring station, the national 24-hour PM_{10} standard was not exceeded during the years 2006 through 2010. The stricter state 24-hour PM_{10} standard was exceeded one day in 2007.

4.3.4 $PM_{2.5}$

Airborne, inhalable particles with aerodynamic diameters of 2.5 microns or less have been recognized as an air quality concern requiring regular monitoring. Federal regulations required that $PM_{2.5}$ monitoring begin January 1, 1999 (County of San Diego 1999). The San

Diego–Overland Avenue monitoring station is one of five stations in the SDAB that monitors $PM_{2.5}$. Federal $PM_{2.5}$ standards established in 1997 include an annual arithmetic mean of 15 $\mu g/m^3$ and a 24-hour concentration of 65 $\mu g/m^3$. As discussed above, the 24-hour $PM_{2.5}$ standard has been changed to 35 $\mu g/m^3$. However, this does not apply to the monitoring from 2004 to 2006. State $PM_{2.5}$ standards established in 2002 are an annual arithmetic mean of 12 $\mu g/m^3$. Table 3 shows that, from 2006 through 2010, neither the prior 24-hour $PM_{2.5}$ standard of 65 $\mu g/m^3$ nor the new standard of 35 $\mu g/m^3$ was exceeded.

The SDAB was classified as an attainment area for the previous federal 24-hour $PM_{2.5}$ standard of 65 $\mu g/m^3$ and has also been classified as an attainment area for the revised federal 24-hour $PM_{2.5}$ standard of 35 $\mu g/m^3$ (U.S. EPA 2004, 2009b). The SDAB is a nonattainment area for the state $PM_{2.5}$ standard (State of California 2005).

4.3.5 Other Criteria Pollutants

The national and state standards for NO_2, SO_x, and previous standard for lead are being met in the SDAB, and the latest pollutant trends suggest that these standards will not be exceeded in the foreseeable future. As discussed above, new standards for these pollutants have been adopted, and new designations for the SDAB will be determined in the future. The SDAB is also in attainment of the state standards for vinyl chloride, hydrogen sulfides, sulfates, and visibility reducing particles.

5.0 Thresholds of Significance

5.1 California Air Resources Board

For purposes of assessing the significance of air quality impacts, the CARB has established guidelines for assessing consistency with applicable air quality plans (e.g., air quality management plan [AQMP]/SIP) per Section 15125(d) of the CEQA Guidelines, as described below.

For long-term emissions, the direct impacts of a project can be measured by the degree to which the project is consistent with regional plans to improve and maintain air quality. The regional plans for San Diego are the 1991/1992 RAQS and attached TCM, as revised by the triennial updates adopted in 1995, 1998, 2001, 2004, and 2009, and the applicable portions of the SIP. The CARB provides criteria for determining whether a project conforms to the RAQS/SIP (State of California 1989), which include the following:

1. Is a regional air quality plan being implemented in the project area?
2. Is the project consistent with the growth assumptions in the regional air quality plan?
3. Does the project incorporate all feasible and available air quality control measures?

5.2 City of Del Mar

The City of Del Mar does not have any adopted thresholds of significance for CEQA. Appendix G of the 2011 CEQA Guidelines contains guidance for determining what would be considered significant under CEQA. For direct applicability, the Appendix G questions have been revised to reflect regulations and plans in the city of Del Mar, as well as current air quality designations.

For the purpose of this air quality assessment, a significant air quality impact would occur as a result of project implementation if the project:

1. Obstructs or conflicts with the implementation of the San Diego RAQS or applicable portions of the SIP.
2. Results in emissions that would violate any air quality standard or contribute substantially to an existing or projected air quality violation.
3. Results in a cumulatively considerable net increase of PM_{10} or exceeds quantitative thresholds for ozone precursors, oxides of nitrogen (NO_x), and volatile organic compounds (VOC).
4. Exposes sensitive receptors (including, but not limited to, schools, hospitals, residential care facilities, or day-care centers) to substantial pollutant concentrations, including air toxics such as diesel particulates.
5. Creates objectionable odors affecting a substantial number of people.

5.3 SDAPCD Emissions Criteria

Emissions resulting from implementation of the proposed Plan would be due primarily to an increase in traffic associated with the construction and the daily operations of the projects approved under the proposed Plan. The SDAPCD does not provide specific numerics for determining the significance of mobile source-related impacts, or for evaluating CEQA projects or projects that do not require an APCD permit to operate (e.g., non-stationary sources).. However, the district does specify Air Quality Impact Analysis (AQIA) trigger levels for new or modified stationary sources (SDAPCD Rules 20.2 and 20.3). Although these trigger levels do not generally apply to mobile sources or general land development projects, for comparative purposes these levels are used to evaluate the increased

emissions that would be discharged to the SDAB if the proposed Plan were approved. The AQIA screening levels are shown in Table 4.

TABLE 4
AIR QUALITY IMPACT ANALYSIS TRIGGER LEVELS

Pollutant	Emission Rate (lb/day)	Emission Rate (tons/yr)
NOx	250	40
SOx	250	40
CO	550	100
PM_{10}	100	15
Lead	3.2	0.6
VOC, ROG[1]	137	15
$PM_{2.5}$[2]	55	10

SOURCE: SDAPCD, Rule 20.2 (12/17/1998).
[1]VOC threshold based on levels per SCAQMD and Monterey Bay APCD which have similar federal and state attainment status as San Diego.
[2]$PM_{2.5}$ threshold obtained from the SCAQMD *Final Methodology to Calculate $PM_{2.5}$ and $PM_{2.5}$ Significance Thresholds* (SCAQMD 2006)

In addition to a comparison with the thresholds, the project should be evaluated to determine whether it has the potential to produce carbon monoxide hot spots at intersections near the project site. A hot spot is a localized area, most often near a congested intersection, where the 1-hour or 8-hour carbon monoxide standards are exceeded. Localized carbon monoxide impacts can occur where projects contribute traffic to intersections in areas where the ambient carbon monoxide concentrations are projected to be near or above state or federal standards. However, hot spots almost exclusively occur near intersections with level of service (LOS) E or worse.

5.4 Public Nuisance Law (Odors)

The State of California Health and Safety Code Sections 41700 and 41705, and SDAPCD Rule 51, commonly referred to as public nuisance law, prohibit emissions from any source whatsoever in such quantities of air contaminants or other material, which cause injury, detriment, nuisance, or annoyance to the public health or damage to property. The provisions of these regulations do not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals. It is generally accepted that the considerable number of persons requirement in Rule 51 is normally satisfied when 10 different individuals/households have made separate complaints within 90 days. Odor complaints from a “considerable” number of persons or businesses in the area will be considered to be a significant, adverse odor impact.

Every use and operation shall be conducted so that no unreasonable heat, odor, vapor, glare, vibration (displacement), dust, smoke, or other forms of air pollution subject to SDAPCD standards of particulate matter shall be discernible at the property line of the

parcel upon which the use or operation is located. Therefore, any unreasonable odor discernible at the property line of the project site will be considered a significant odor impact.

6.0 Air Quality Assessment

Air quality impacts can result from the construction and operation of a project. Construction impacts are short term and result from fugitive dust, equipment exhaust, and indirect effects associated with construction workers and deliveries. Operational impacts can occur on two levels: regional impacts resulting from growth-inducing development or local hot-spot effects stemming from sensitive receivers being placed close to highly congested roadways. In the case of the proposed Plan, operational impacts are primarily due to emissions to the basin from mobile sources associated with the vehicular travel along the roadways within the project area.

Air emissions were calculated using the CalEEMod computer program (SCAQMD 2011). The CalEEMod program is a tool used to estimate air emissions resulting from land development projects in the state of California. The model generates emissions from three basics sources: construction sources, area sources (e.g., fireplaces and natural gas heating), and operational sources (e.g., traffic).

Inputs to CalEEMod include such items as the air basin containing the project, land uses, trip generation rates, trip lengths, vehicle fleet mix (percentage autos, medium truck, etc.), trip distribution (i.e., percent home to work, etc.), duration of construction phases, construction equipment usage, grading areas, season, and ambient temperature, as well as other parameters. The CalEEMod output files contained in Attachments 1 through 4 indicate the specific inputs for each model run. Emissions of NO_x, CO, SO_x, PM_{10}, $PM_{2.5}$, and ROGs, an ozone precursor, are calculated. Emission factors are not available for lead, and consequently, lead emissions are not calculated. The SDAB is currently in attainment of the state and federal lead standards. Furthermore, fuel used in construction equipment and most other vehicles is not leaded.

6.1 Construction-related Emissions

Construction-related activities are temporary, short-term sources of air emissions. Sources of construction-related air emissions include:

- Fugitive dust from grading activities;
- Construction equipment exhaust;
- Construction-related trips by workers, delivery trucks, and material-hauling trucks; and
- Construction-related power consumption.

6.1.1 Construction

Air pollutants generated by the construction of projects within the plan area would vary depending upon the number of projects occurring simultaneously and the size of each individual project. Construction-related pollutants result from dust raised during demolition and grading, emissions from construction vehicles, and chemicals used during construction.

Heavy-duty construction equipment is usually diesel powered. In general, emissions from diesel-powered equipment contain more nitrogen oxides, sulfur oxides, and particulate matter than gasoline-powered engines. However, diesel-powered engines generally produce less carbon monoxide and less reactive organic gases than do gasoline-powered engines. Standard construction equipment includes dozers, rollers, scrapers, dewatering pumps, backhoes, loaders, paving equipment, delivery/haul trucks, jacking equipment, welding machines, pile drivers, and so on.

The exact number and timing of all development projects that could occur under the proposed Plan are unknown. However, since the area is heavily developed, it can be assumed that these areas would experience relatively small projects in terms of land area, most of which would involve the demolition of existing structures and improvements.

To illustrate potential air effects from the projects that could occur, a speculative project was evaluated. One of the largest lots and buildings existing in the Plan area is a 13,000-square-foot retail use on a 28,500-square-foot lot. The speculative project includes the demolition of this building and the construction of a 28,000-square-foot commercial retail project. It should be noted that a majority of the lots and existing developments in the project area are smaller than this speculative project; therefore, this is assumed to be a worst-case project.

CalEEMod default parameters were used for the equipment needed for all phases of construction which are estimated based on the size of the land use subtype features entered in the land use module.

As of January 1, 2011, architectural paints and coatings shall comply with VOC limits specified in CalGreen 2010 (Green Building Standards Code, California Code of Regulations, Title 24, Part 11) unless more stringent local limits apply. Currently, depending on the coating, the CalGreen VOC limits generally are more stringent than the SDAPCD

limits specified in Rule 67.0. The CalGreen VOC limit is 150 milligrams per liter (mg/L) whereas SDAPCD Rule 67.0 allows a VOC content for coatings of up to 250 mg/L. The CalGreen architectural coating VOC limit of 150 mg/L was used for new all construction coatings. All other CalEEMod defaults were assumed.

Table 5 summarizes the anticipated emissions from this speculative project. CalEEMod input and output files for construction emissions are contained in Attachment 1.

TABLE 5
MAXIMUM DAILY CONSTRUCTION EMISSIONS
(pounds/day)

Pollutant	Emissions (pound per day)	SDAPCD Threshold
ROG	78	137
NOx	20	250
CO	13	550
SO_2	0	250
PM_{10} Total	4	100
PM_{10} - fugitive dust	3	- -
PM_{10} - exhaust	1	- -
$PM_{2.5}$ Total	2	55
$PM_{2.5}$ - fugitive dust	0	- -
$PM_{2.5}$ - exhaust	1	- -

Note that the emissions summarized in Table 5 are the maximum emissions for each pollutant and that they may occur during different phases of construction. They would not necessarily occur simultaneously. These are, therefore, the worst-case emissions. For assessing the significance of the air quality emissions resulting during construction of a proposed project under the proposed Plan, the construction emissions were compared to the SDAPCD AQIA thresholds. The SDAPCD does not have a threshold for $PM_{2.5}$. The threshold for $PM_{2.5}$ was obtained from the SCAQMD Final Methodology to Calculate $PM_{2.5}$ and $PM_{2.5}$ Significance Thresholds (SCAQMD 2006). Note that the terms ROG and VOC are essentially synonymous and are used interchangeably in this analysis.

As seen, the worst-case project is not expected to exceed the applicable thresholds. This project is illustrative only. Approval of the proposed Plan would not permit the construction of any individual project, and no specific development details are available. The information is presented to illustrate the potential scope of air impacts for projects that could be reviewed under the proposed Plan. However, it is not anticipated that construction activities expected to occur would result in a significant impact if the proposed Plan were adopted.

6.1.2 Fugitive Dust

Fugitive dust is any solid particulate matter that becomes airborne directly or indirectly as a result of the activities of man or natural events (such as windborne dust), other than that

emitted from an exhaust stack. Construction dust is comprised primarily of chemically inert particles that are too large to enter the human respiratory tract when inhaled. Approximately 35 percent of the total fugitive dust emissions is 10 microns or smaller.

Fugitive dust emissions vary greatly during construction and are dependent on the amount and type of activity, silt content of the soil, and the weather. Vehicles moving over paved and unpaved surfaces, demolition, excavation, earth movement, grading, and wind erosion from exposed surfaces are all sources of fugitive dust.

Fugitive dust emissions to the air basin due to the construction of small projects are not expected to be significant within the Plan area (see Table 5). As required by Regulation 4, Rules 52 and 54, of the SDAPCD's rules and regulations, dust control during demolition and grading operations would be implemented. Fugitive dust impacts would be less than significant.

6.2 Operation-related Emissions

6.2.1 Mobile and Area Source Emissions

Operational source emissions would originate from traffic generated within or as a result of the proposed Plan. Area source emissions would result from activities such as use of natural gas and landscaping maintenance associated with the proposed landscaping.

For comparative purposes, air emissions were calculated for the existing land uses in 2011, existing land uses in 2035, and the buildout of the proposed Plan in the year 2035 using CalEEMod 2011. Table 6 summarizes the existing and future buildout land uses.

TABLE 6
EXISTING AND FUTURE MODELED LAND USES

Land Use			Existing	Proposed Plan (2035)	Trip Rate		
Type	Subtype	Unit	Intensity	Intensity	Weekday	Saturday	Sunday
Commercial	Motel	Rm	17	60	9.00	10.50	8.40
Commercial	Government (Civic)	KSF	23.592	30.126	30.00	0.00	0.00
Educational	Library	KSF	4.874	4.874	50.00	46.55	25.49
Residential	Apartments Low Rise	DU	2	140	8.00	7.16	6.07
Commercial	General Office Building	KSF	169.646	170.00	20.00	0.41	0.14
Recreational	City Park	Acres	0.05	0.14	1.59*	1.59*	1.59*
Recreational	Quality Restaurant	KSF	32.394	66.00	160.00	94.36	72.16
Retail	Strip Mall	KSF	41.811	138.5	40.00	42.04	20.43

SOURCE: KOA Traffic Impact Study 2012
RM = room; KSF = 1,000 square feet; DU = dwelling unit.
*Trip rates for City Parks were not provided by the KOA Traffic Impact Study. CalEEMod default values were used.

Trip generation rates were obtained from the Del Mar Village Specific Plan Traffic Impact Study prepared for the proposed Plan and are summarized in Table 6 above (KOA Corporation 2012). The Traffic Impact Study (TIS) did not provide trip generation rates for city parks; therefore, the CalEEMod default trip rate was used. Using the trip rates shown in Table 6, CalEEMod calculates that the existing land uses generate 11,368 weekday trips, 5,303 Saturday trips, and 3,494 Sunday trips. Buildout of the proposed land uses would generate 22,308 weekday trips, 13,979 Saturday trips, and 9,094 Sunday trips. A regional average trip length of 5.8 miles was assumed (SANDAG 2012). All other default mobile source parameters such as fleet mix were assumed.

All CalEEMod defaults for area source emissions, including those associated with fireplaces, were assumed. There are 140 proposed multi-family units. CalEEMod assumes that 49 units would have wood burning fireplaces, 77 units would have natural gas fireplaces, and 14 units would not have fireplaces.

All CalEEMod defaults for energy source emissions were assumed. The default assumes adjustment is to the 2008 Title 24 energy code (part 6 of the building code). Adjustments to simulate the 2005 Title 24 energy code are available in the model by selecting the “use historical data” box. For the existing conditions estimate, the historical data box was selected in order to reflect GHG emissions from energy use as associated with a building built to the 2005 Title 24 energy code. For buildout of the proposed land uses, construction in accordance with the 2008 Title 24 energy code was assumed.

A summary of the operational emissions for the existing uses, the existing uses in year 2035, and the proposed Plan in year 2035 is shown in Table 7. The CalEEMod input and output files for the existing land uses are contained in Attachment 2. The CalEEMod input and output files for buildout of the proposed Plan are contained in Attachment 3.

As seen in Table 7, future emissions of ROG, SO_x, PM_{10}, and $PM_{2.5}$ under the proposed Plan are projected to be greater than existing emissions of ROG, SO_x, PM_{10}, and $PM_{2.5}$. This is due to the increased density in the Plan area. Despite the increase in vehicle traffic, future emissions of NO_x and CO under the proposed Plan are projected to be less than the existing emissions of NO_x and CO. This is due to the future increased efficiency of the vehicle population.

Table 8 compares the operational emissions under buildout of the proposed Plan in year 2035 to the existing operational emissions and to the operational emissions under buildout of the existing land uses (i.e., buildout of the No Project scenario). As shown in Table 8, the change in emissions between buildout of the proposed Plan and the existing land uses (2011) are projected to be less than the applicable thresholds for all criteria pollutants. Additionally, the change in emissions between buildout of the proposed Plan and buildout of the existing land uses are projected to be less than the applicable thresholds for all criteria pollutants. Operational emissions would be less than significant.

TABLE 7
AVERAGE DAILY EMISSIONS TO THE SAN DIEGO AIR BASIN
(pounds/day)

Season/ Pollutant	Existing Emissions (Year 2011)				Existing Emissions (Year 2035)				Buildout of Proposed Plan (Year 2035)			
	Area Source	Energy Sources	Mobile Sources	Total[1]	Area Source	Energy Sources	Mobile Sources	Total[1]	Area Source	Energy Sources	Mobile Sources	Total[1]
Summer												
ROG	9	0	48	57	9	0	19	28	91	1	37	129
NO_x	0	3	88	91	0	3	35	38	1	5	67	74
CO	2	2	430	434	2	2	141	145	121	4	271	396
SO_x[2]	0	0	0	0	0	0	0	0	0	0	1	1
PM_{10}	0	0	49	50	0	0	49	49	16	0	92	109
$PM_{2.5}$	0	0	3	4	0	0	3	3	16	0	5	22
Winter												
ROG	9	0	51	60	9	0	20	29	91	1	39	131
NO_x	0	3	92	95	0	3	35	38	1	5	67	74
CO	2	2	449	453	2	2	147	151	121	4	284	408
SO_x[2]	0	0	0	0	0	0	0	0	0	0	1	1
PM_{10}	0	0	49	50	0	0	49	49	16	0	92	109
$PM_{2.5}$	0	0	3	4	0	0	3	3	16	0	5	22

[1]Totals may differ due to rounding.
[2]Emissions calculated by CalEEMod are for SO_2.

TABLE 8
CHANGE IN AVERAGE DAILY EMISSIONS DUE TO THE PROPOSED PLAN
(pounds/day)

Season/ Pollutant	Proposed Plan (2035) – Existing Uses (2011) Area Source	Energy Sources	Mobile Sources	Total[1]	Proposed Plan (2035) – Existing Uses (2035) Area Source	Energy Sources	Mobile Sources	Total[1]	SDAPCD Significance Thresholds
Summer									
ROG	82	1	-11	72	82	1	18	101	137
NO_x	1	2	-21	-17	1	2	32	36	250
CO	119	2	-159	-38	119	2	130	251	550
SO_x[2]	0	0	1	1	0	0	1	1	250
PM_{10}	16	0	43	59	16	0	43	60	100
$PM_{2.5}$	16	0	2	18	16	0	2	19	55
Winter									
ROG	82	1	-12	71	82	1	19	102	137
NO_x	1	2	-25	-21	1	2	32	36	250
CO	119	2	-165	-45	119	2	137	257	550
SO_x[2]	0	0	1	1	0	0	1	1	250
PM_{10}	16	0	43	59	16	0	43	60	100
$PM_{2.5}$	16	0	2	18	16	0	2	19	55

[1]Totals may differ due to rounding.
[2]Emissions calculated by CalEEMod are for SO_2.

6.2.2 Localized Intersection Carbon Monoxide Impacts

Small-scale, localized concentrations of carbon monoxide, referred to as "CO hot spots," typically occur near intersections with LOS E or worse in combination with relatively high traffic volumes on roadway segments. No intersections are calculated to operate at LOS E or worse due to Plan implementation, either in the existing condition or year 2035. This is largely due to the proposed roundabouts at key intersections on Camino del Mar which would avoid potentially significant intersection delays. Therefore, impacts associated with localized carbon monoxide concentrations would be considered less than significant.

6.3 Conformance with Regional Plans and City Criteria

6.3.1 California Air Resources Board

1. Is an Air Quality Plan being implemented in the area where the Plan is proposed?

The Plan area is in the city of Del Mar, which is within the San Diego Air Basin. The 1991/1992 RAQS (and triennial updates) are implemented by SDAPCD throughout the air basin. Additionally, the California SIP is implemented throughout the state. Therefore, the proposed Plan fulfills the first criteria from the CARB guidelines described in the Thresholds of Significance section.

2. Is the proposed Plan consistent with the growth assumptions in the AQMP?

As described above, the California Clean Air Act requires areas that are designated nonattainment of state ambient air quality standards for ozone, CO, SO_2, and NO_2 to prepare and implement plans to attain the standards by the earliest practicable date. The SDAB is designated nonattainment for ozone, PM_{10}, and $PM_{2.5}$ (but as noted CCAA only requires, in this case, a plan for ozone). Accordingly, the RAQS was developed to identify feasible emission control measures and provide expeditious progress toward attaining the State ozone standards. The two pollutants addressed in the RAQS are VOCs and NOx, which are precursors to the formation of ozone. Projected increases in motor vehicle usage, population, and industrial growth create challenges in controlling emissions to maintain and further improve air quality. The RAQS, in conjunction with the TCM, were most recently adopted in 2009 as the air quality plan for the region.

The RAQS control measures focus on emission sources under the SDAPCD's authority, specifically stationary emission sources and some area-wide sources. The stationary source control measures identified in the RAQS have been developed by the SDAPCD into regulations through a formal rulemaking process. Rules are developed to set limits on the amount of emissions from various types of sources and by requiring specific emission control technologies. Following rule adoption, a permit system is used to impose controls on

new and modified stationary sources and to ensure compliance with regulations by prescribing specific operating conditions or equipment on a source. By complying with the SDAPCD rules and regulations, the proposed Plan would not interfere with the RAQS control measures for stationary sources.

The CARB mobile source emission projections and SANDAG growth projections are based on population and vehicle trends and land use plans developed in General Plans. As such, projects that propose development that is consistent with the growth anticipated by SANDAG's growth projections and/or the General Plan would be consistent with the RAQS.

There are currently two existing residential dwelling units in the Plan area. Buildout of the proposed Plan could result in an additional 138 dwelling units, for a total of 140 units in the Plan area. Using the average population generation rate for Del Mar of 2.13 persons per household from SANDAG, the increased number of units could house an additional population of 294. From 2008 to 2030 (the approximate horizon year of the proposed Plan), SANDAG projects that the population of Del Mar will increase by 400 persons to a total population of 4,900. From 2008 to 2050, SANDAG projects that the population of Del Mar will increase by 590 persons (a 12 percent increase), while the total number of housing units will only increase by 71 dwelling units (or 3 percent). Growth due to the proposed Plan would thus be consistent with SANDAG future growth projections and would not conflict with the RAQS or applicable portions of the SIP. While Plan implementation would result in the development of increased residential capacity within the Plan area, it would not foster unplanned population growth and would instead provide housing needed to accommodate the projected population growth for Del Mar given the projected lack of future housing. Also, by accommodating additional housing within an already developed area in close proximity to cultural, recreational, employment and resident-serving uses, the proposed Plan provides a smart growth pattern of development.

3. *Does the project contain in its design all reasonably available and feasible air quality control measures?*

Approval of the proposed Plan would not permit the construction of any individual project, and no specific development details are available. Individual projects would be required to use best management practices to decrease emissions.

6.3.2 City of Del Mar

6.3.2.1 Air Quality Plan Consistency

1. *Would the proposed Plan obstruct or conflict with the implementation of the San Diego RAQS or applicable portions of the SIP?*

As discussed above, because the proposed land use changes would be consistent with the SANDAG population and housing growth projections for Del Mar, the proposed Plan is

considered to conform with the current RAQS. Consequently, the proposed Plan would not conflict with the adopted air plan, and impacts would be less than significant.

6.3.2.2 Violation of Air Quality Standards

2. Would the proposed Plan result in emissions that would violate any air quality standard or contribute substantially to an existing or projected air quality violation?

There are currently no air quality violations in or near the Plan area. The proposed Plan would allow residential, retail, and office uses. It is not anticipated that projects constructed as a result of the proposed Plan would result in significant stationary sources of emissions. Impacts would be less than significant.

Emissions from increased traffic on area roadways may lead to air quality violations. Emissions due to operation and construction of the proposed Plan are discussed below.

6.3.2.3 Increase in Particulates or Ozone

3. Would the proposed Plan result in a cumulatively considerable net increase of PM_{10}, $PM_{2.5}$, or exceed quantitative thresholds for ozone precursors, oxides of nitrogen (NO_x), and volatile organic compounds?

The region is classified as attainment for all criterion pollutants except ozone, PM_{10}, and $PM_{2.5}$. The SDAB is nonattainment for the eight-hour federal and state ozone standards. Ozone is not emitted directly, but is a result of atmospheric activity on precursors. Nitrogen oxides and hydrocarbons (reactive organic gases) are known as the chief “precursors” of ozone. These compounds react in the presence of sunlight to produce ozone.

As discussed above, emissions due to construction of individual projects are not expected to exceed the applicable thresholds. Approval of the proposed Plan would not permit the construction of any individual project, and no specific development details are available. The information is presented to illustrate the potential scope of air impacts for projects that could be reviewed under the proposed Plan. However, is not anticipated that construction impacts would be significant.

Long-term emissions of air pollutants occur from both area and mobile sources. Area source pollutant emissions include those generated by the consumption of natural gas and electricity for space and water heating and the burning of wood in residential fireplaces. Vehicle travel would generate mobile source emissions including carbon monoxide, nitrogen oxides, and hydrocarbons.

As seen in Table 7 above, future emissions of ROG, SO_x, PM_{10}, and $PM_{2.5}$ under the proposed Plan are projected to be greater than existing emissions of ROG, SO_x, PM_{10}, and $PM_{2.5}$. This is due to the increased density in the Plan area. Despite the increase in vehicle traffic, future emissions of NO_x and CO under the proposed Plan are projected to be less

than the existing emissions of NO_x and CO. This is due to the future increased efficiency of the vehicle population.

As shown in Table 8, the change in emissions between buildout of the proposed Plan and the existing land uses (2011) are projected to be less than the applicable thresholds for all criteria pollutants. Additionally, the change in emissions between buildout of the proposed Plan and buildout of the existing land uses are projected to be less than the applicable thresholds for all criteria pollutants. Operational emissions would be less than significant.

6.3.2.4 Sensitive Receptors

4. *Would the proposed Plan expose sensitive receptors (including, but not limited to, schools, hospitals, resident care facilities, or day-care centers) to substantial pollutant concentrations, including air toxics such as diesel particulates?*

Impacts due to exposure of sensitive receptors to diesel particulates from roadway traffic have the potential to occur if new sensitive land uses are placed within 500 feet of a freeway, urban road with 100,000 vehicles per day, or rural road with 50,000 vehicles per day. The Plan area is not located within 500 feet of a freeway or heavily traveled roadway; therefore, impacts due to exposure to diesel particulate matter would be less than significant.

Impacts due to exposure of sensitive receptors to carbon monoxide concentrations from roadway traffic have the potential to occur near intersections with LOS E or worse in combination with high roadway segment traffic volumes. The TIS for the proposed Plan did not identify any intersections in the Plan area that would operate at LOS E or worse due to Plan implementation, either in the existing condition or year 2035. Therefore, impacts associated with exposing sensitive receptors to high carbon monoxide concentrations (or "hot spots") would be considered less than significant.

6.3.2.5 Odors

5. *Would the proposed Plan create objectionable odors affecting a substantial number of people?*

There are no existing sources of odors within the Plan area. The proposed Plan would allow residential, retail, and office development, and is not anticipated to create or expose sensitive receivers to odors. The proposed Plan does not propose any specific new sources of odor that could affect sensitive receptors. Impacts are less than significant.

7.0 Conclusions and Recommendations

As discussed above, emissions due to construction of individual projects are not expected to exceed the applicable thresholds. Future operational emissions of ROG, SO_x, PM_{10}, and $PM_{2.5}$ under the proposed Plan are projected to be greater than existing emissions of ROG, SO_x, PM_{10}, and $PM_{2.5}$. This is due to the increased density in the plan area. Despite the increase in vehicle traffic, future emissions of NO_x and CO under the proposed Plan are projected to be less than the existing emissions of NO_x and CO. This is due to the future increased efficiency of the vehicle population. The change in emissions between buildout of the proposed Plan and the existing land uses (2011) are projected to be less than the applicable thresholds for all criteria pollutants. Additionally, the change in emissions between buildout of the proposed Plan and buildout of the existing land uses are projected to be less than the applicable thresholds for all criteria pollutants. Operational emissions would be less than significant.

Additionally, the proposed Plan would not expose sensitive receptors to substantially CO concentrations, diesel particulate matter, or odors.

Lastly, because the proposed land use changes would be consistent with the SANDAG growth projections upon which the RAQS are based, the proposed Plan is considered to conform to the current RAQS. Consequently, the proposed Plan would not conflict with the adopted air plan. Impacts would be less than significant.

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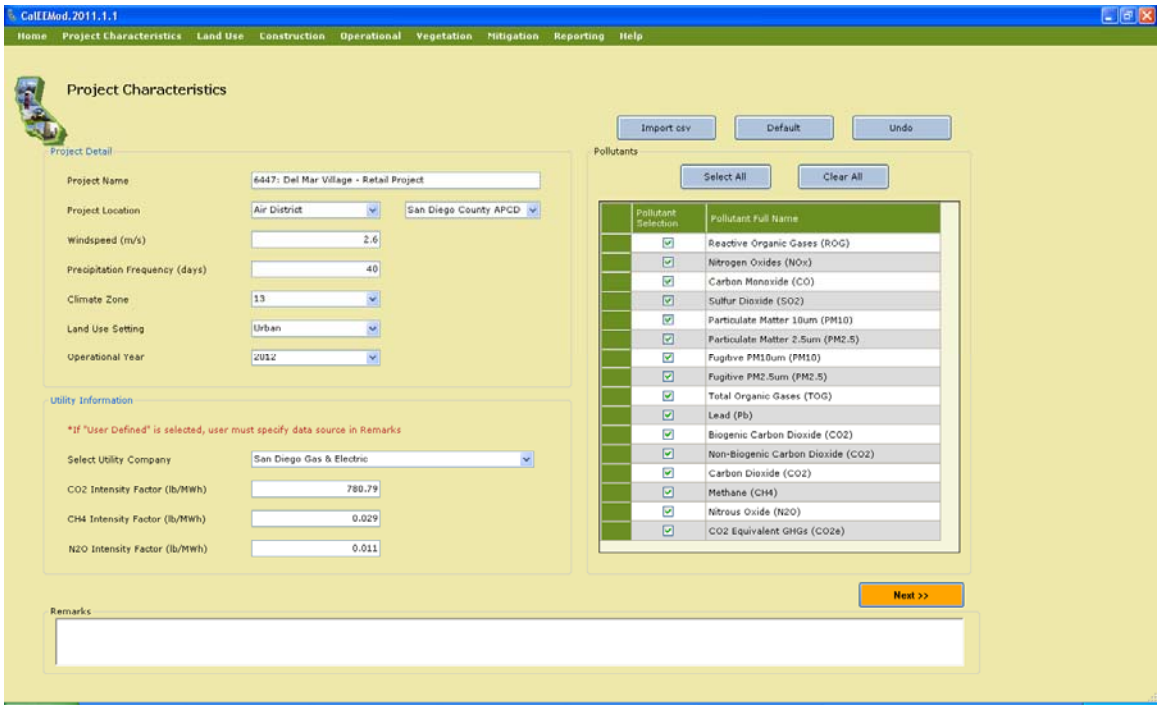
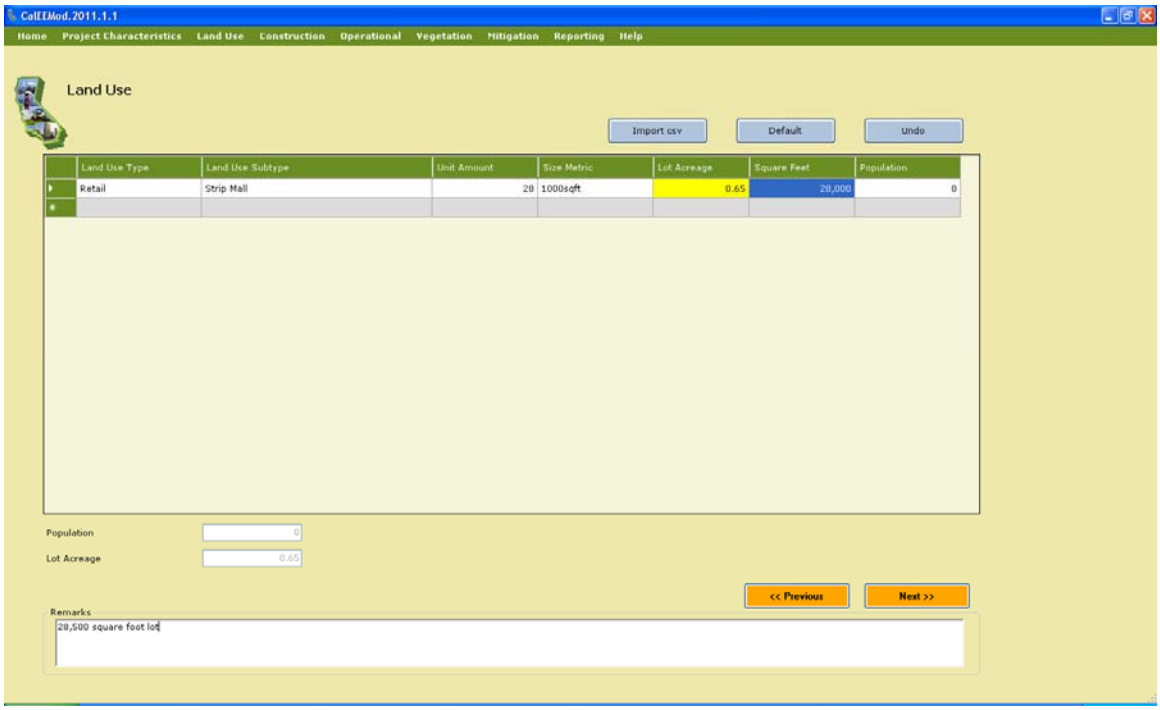
ATTACHMENTS

ATTACHMENT 1

Retail Construction Input

CalEEMod Input
Construction
Demolition – 13,000 sq ft, Construction – 28,000 sq ft, Lot Size – 28,500 sq ft





CalEEMod Input
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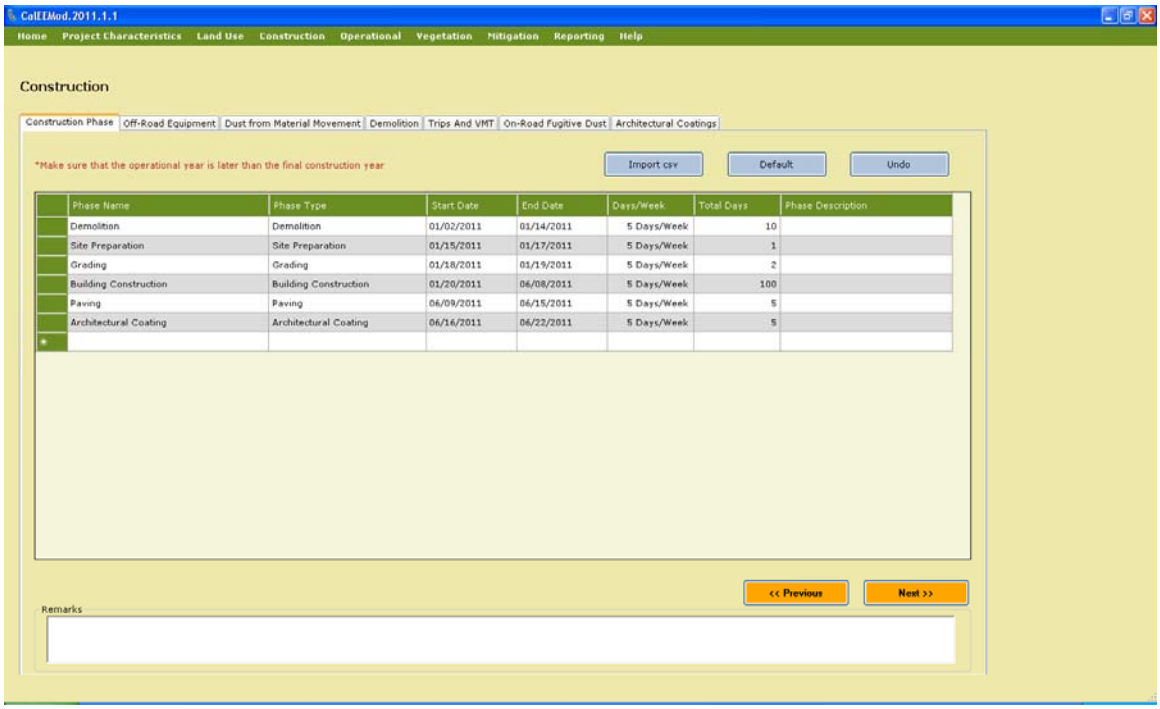

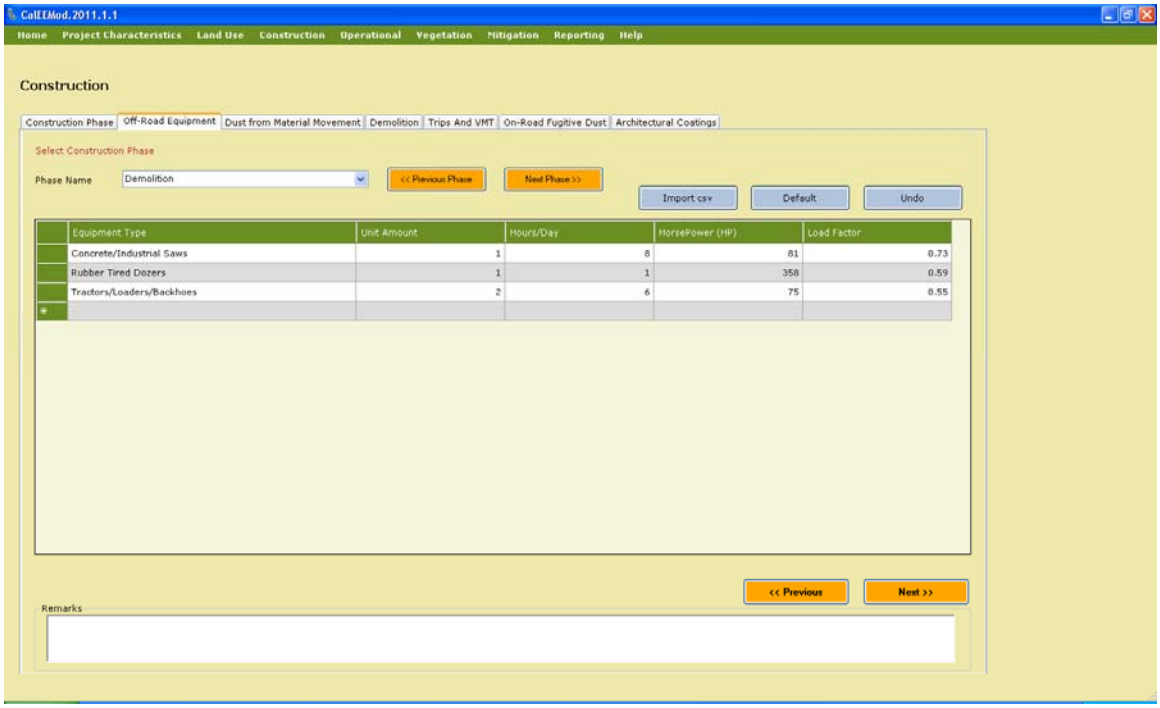

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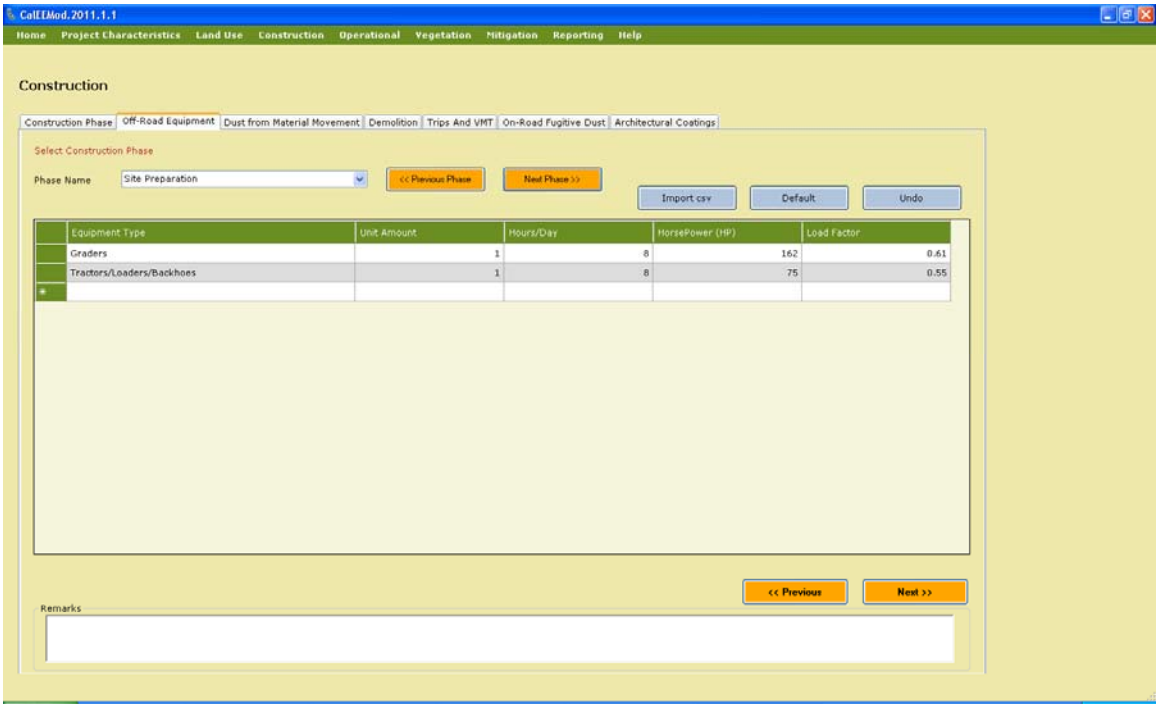

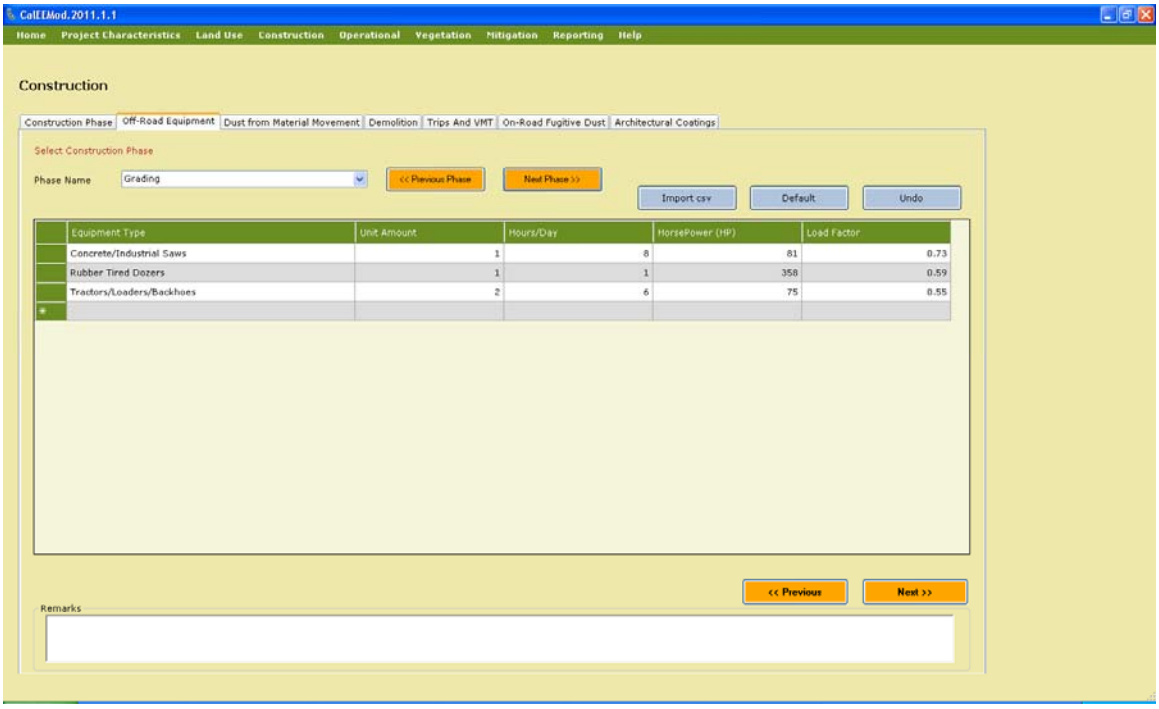

CalEEMod Input
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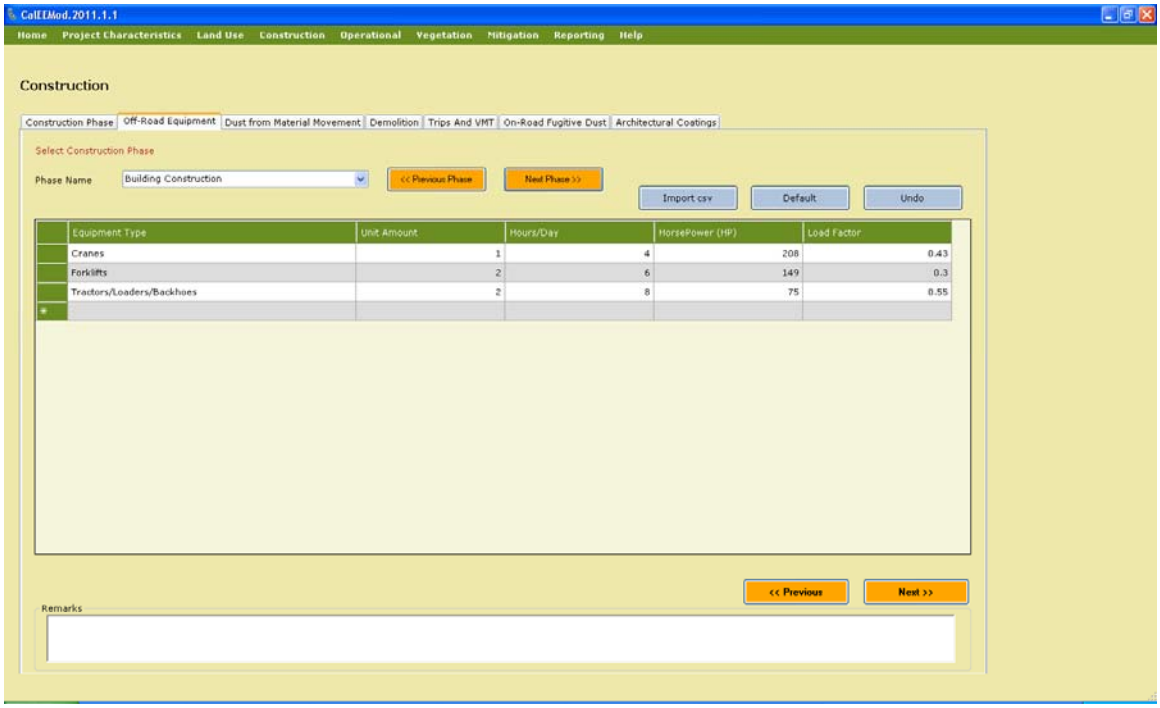
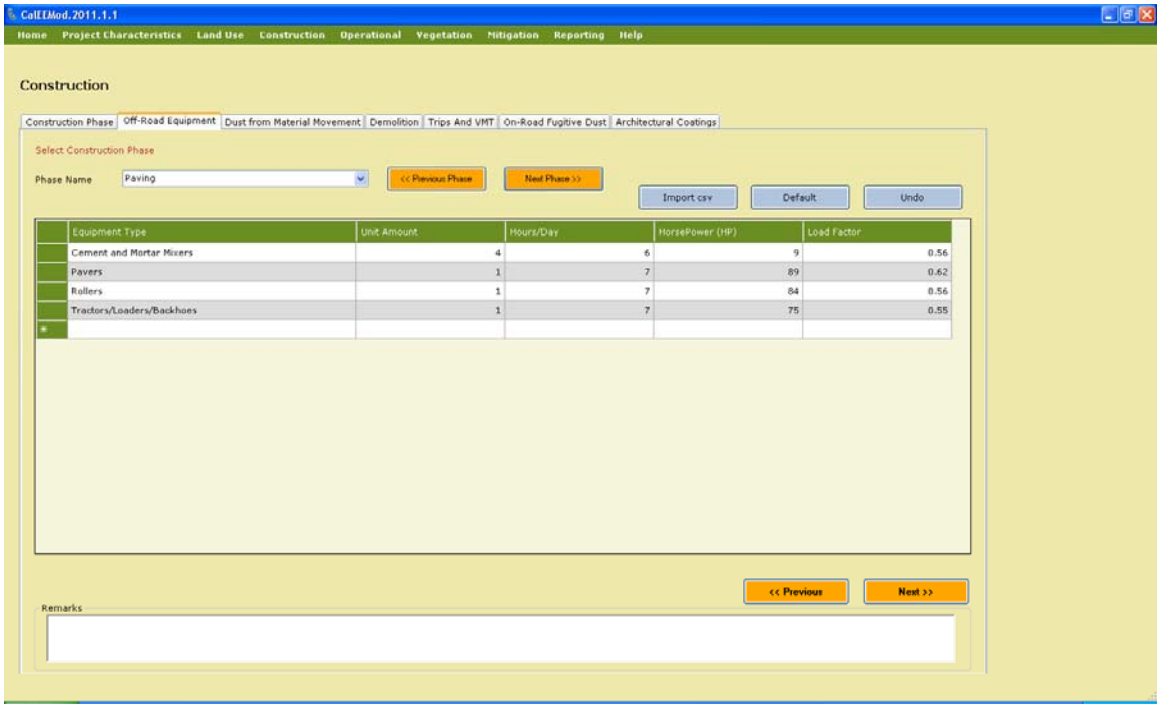
Demolition – 13,000 sq ft, Construction – 28,000 sq ft, Lot Size – 28,500 sq ft





CalEEMod Input
Construction
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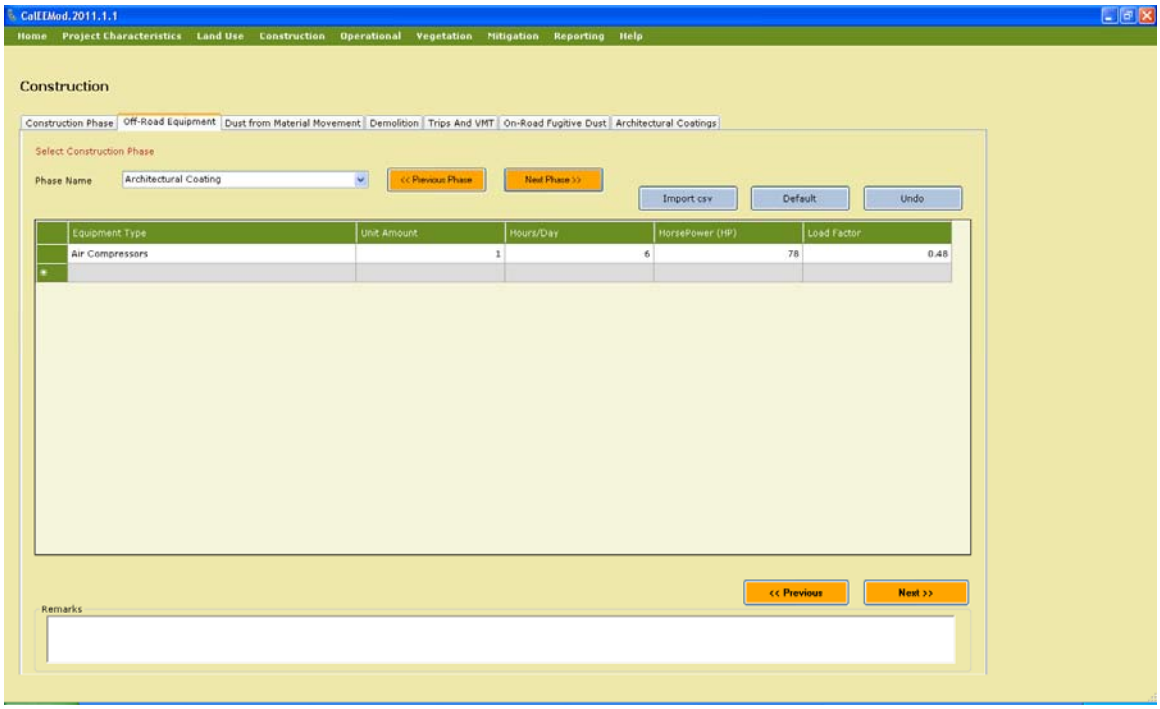
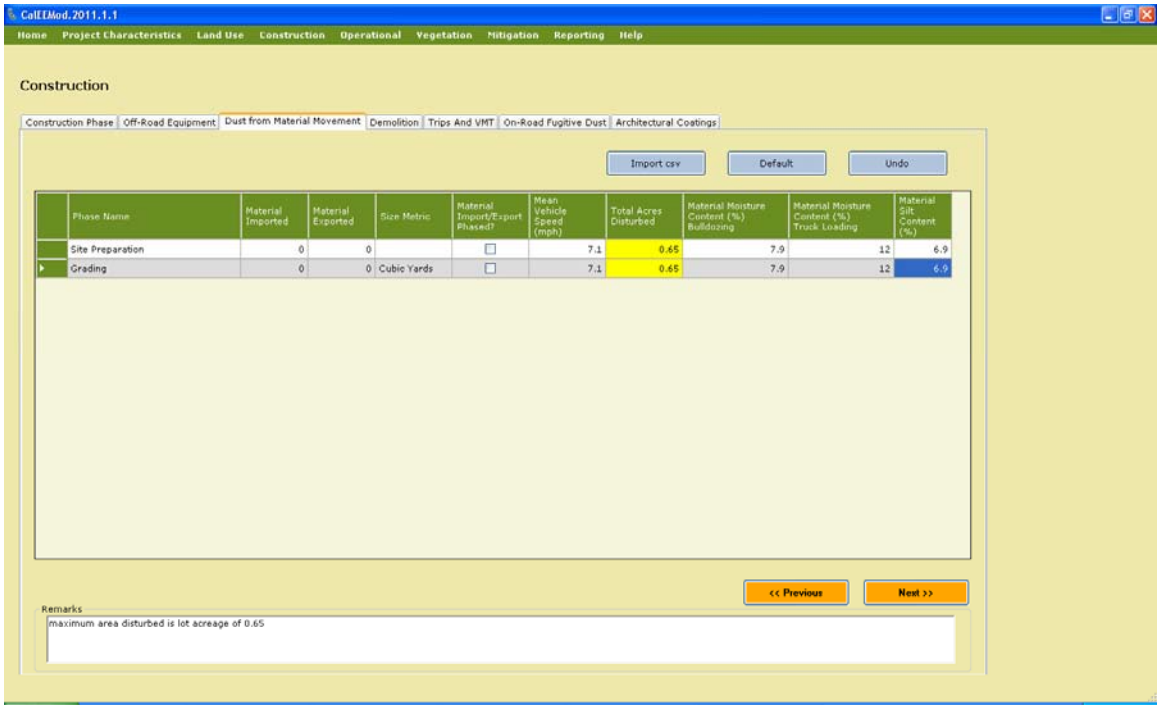
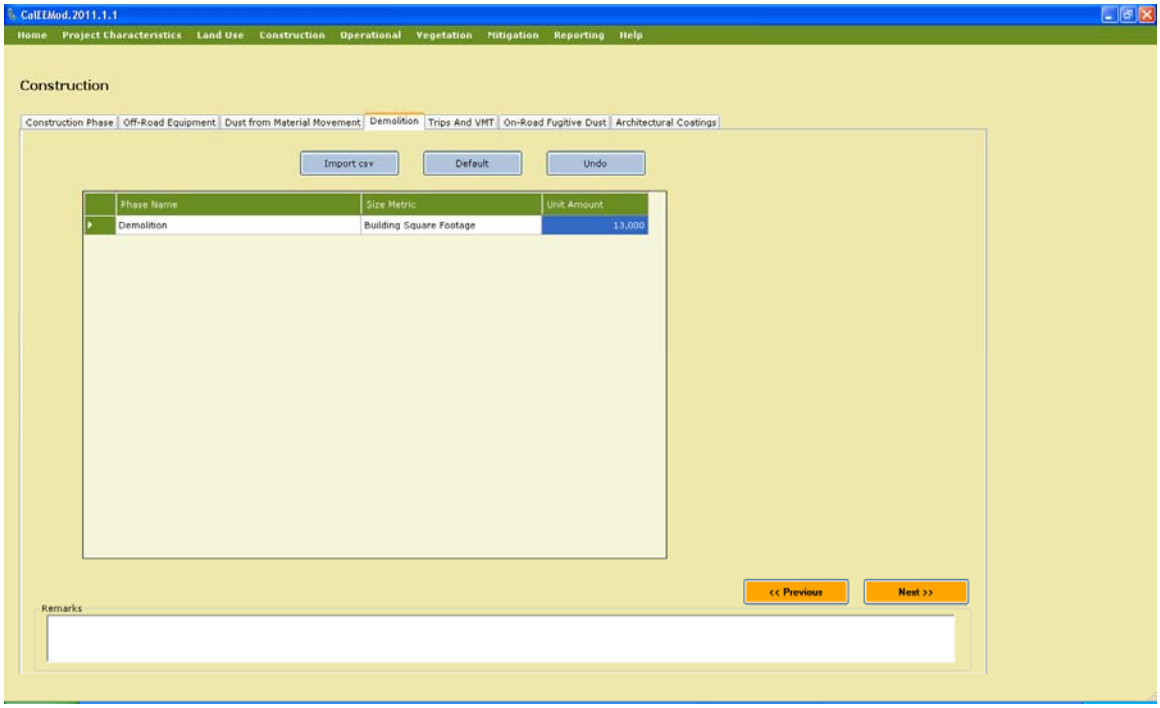
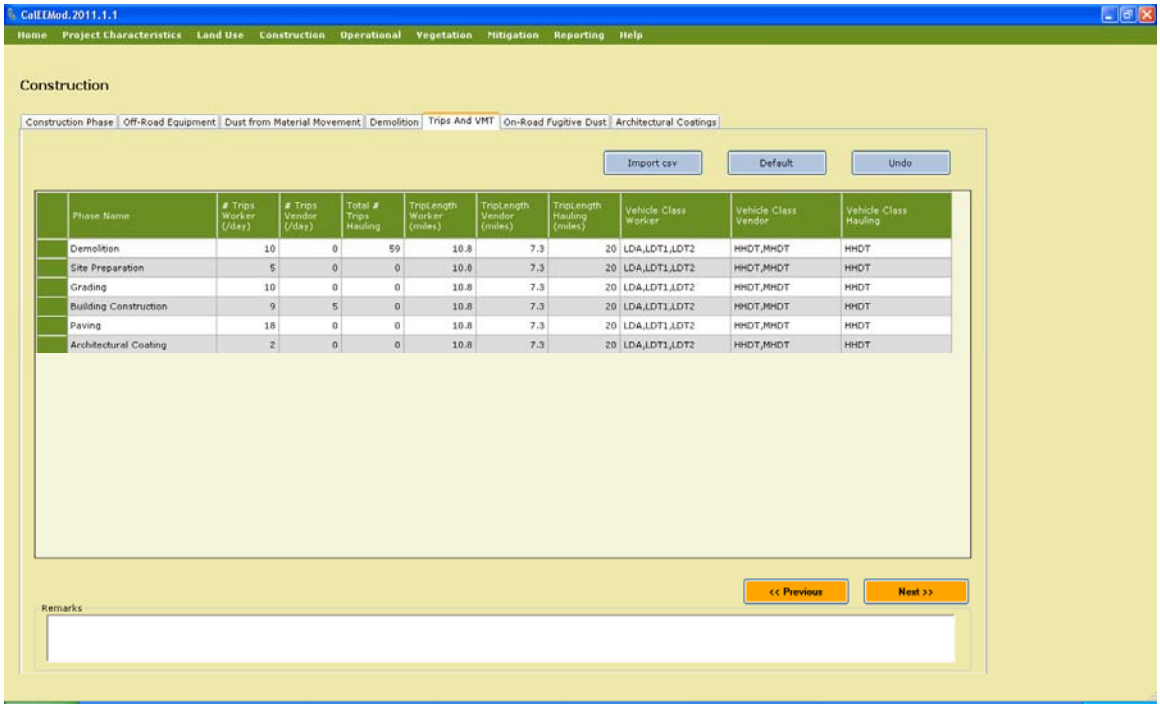


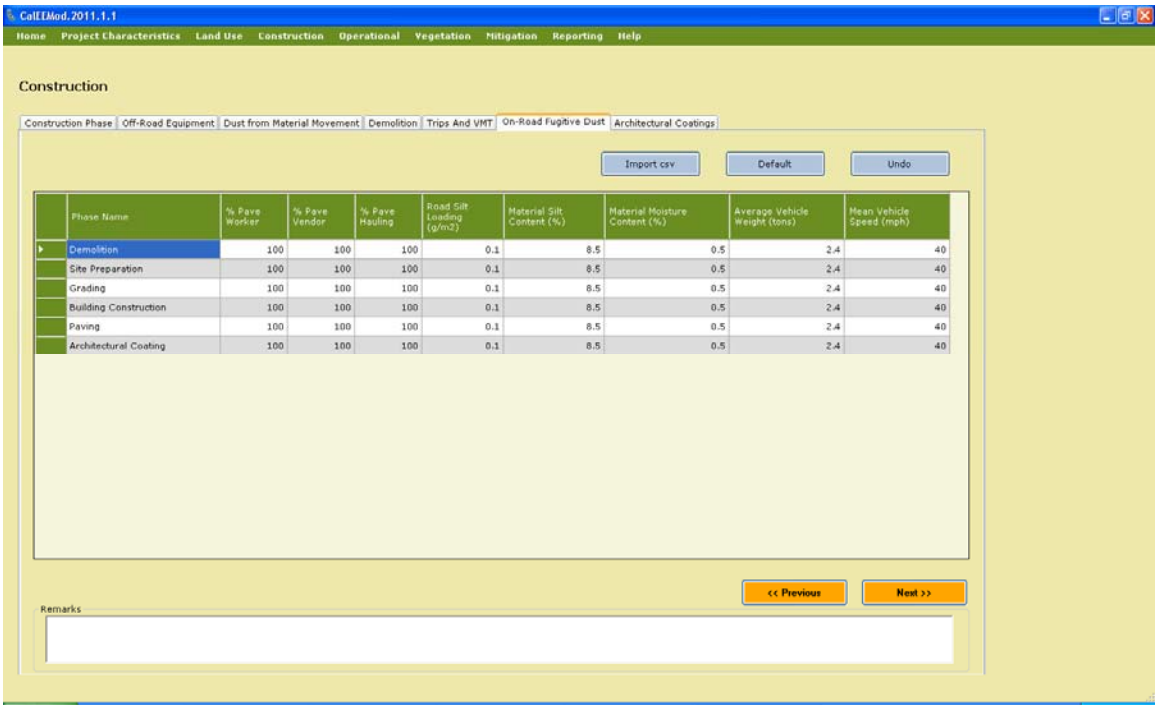


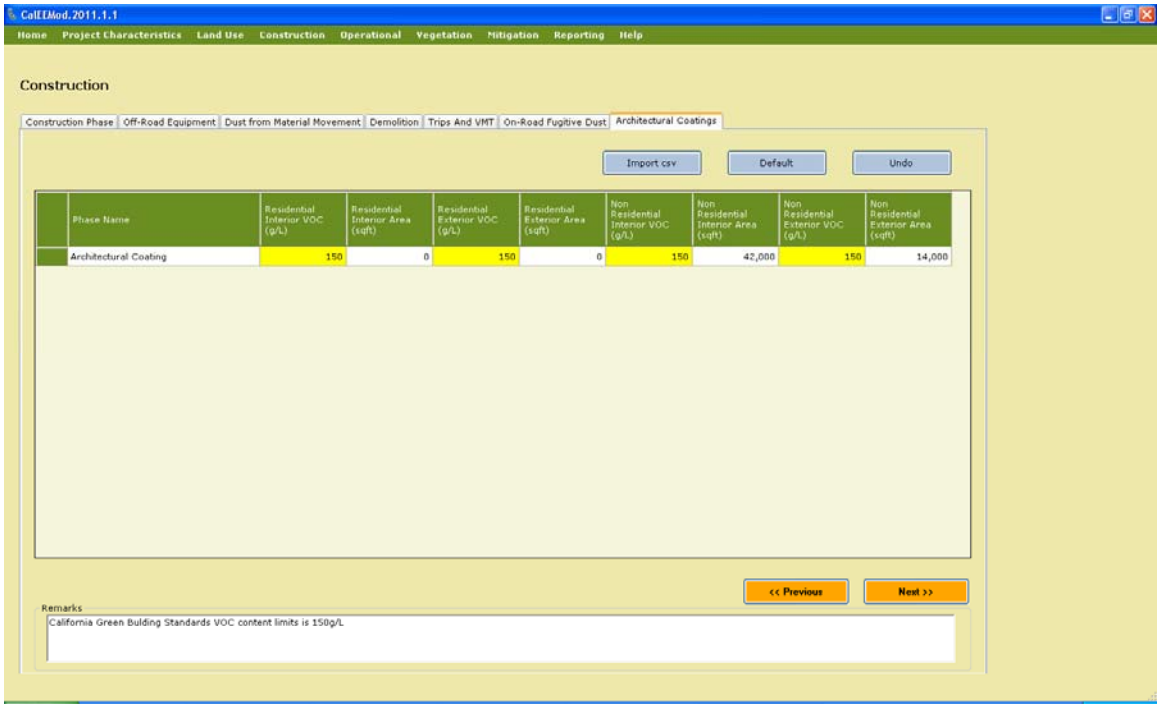
CalEEMod Input
Construction
Demolition – 13,000 sq ft, Construction – 28,000 sq ft, Lot Size – 28,500 sq ft





CalEEMod Input
Construction
Demolition – 13,000 sq ft, Construction – 28,000 sq ft, Lot Size – 28,500 sq ft





Retail Construction Output, Summer

6447: Del Mar Village - Retail Project

San Diego County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Strip Mall	28	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	San Diego Gas & Electric
Climate Zone	13		2.6		
		Precipitation Freq (Days)			
			40		

1.3 User Entered Comments

Project Characteristics -

Land Use - 28,500 square foot lot

Construction Phase -

Demolition -

Grading - maximum area disturbed is lot acreage of 0.65

Architectural Coating - California Green Bulding Standards VOC content limits is 150g/L

Vehicle Trips - Trip rates taken from KOA Traffic Impact Study

Area Coating -

Area Mitigation -

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					
2011	78.38	20.18	12.52	0.02	2.82	1.40	4.22	0.42	1.40	1.67	0.00	2,179.48	0.00	0.25	0.00	2,184.72
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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					
2011	78.38	20.18	12.52	0.02	1.32	1.40	2.72	0.42	1.40	1.67	0.00	2,179.48	0.00	0.25	0.00	2,184.72
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.78	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.00	0.02	0.01	0.00		0.00	0.00		0.00	0.00		20.67		0.00	0.00	20.79
Mobile	5.49	10.54	50.59	0.06	6.32	0.38	6.70	0.09	0.33	0.41		5,870.45		0.38		5,878.38
Total	**6.27**	**10.56**	**50.60**	**0.06**	**6.32**	**0.38**	**6.70**	**0.09**	**0.33**	**0.41**		**5,891.12**		**0.38**	**0.00**	**5,899.17**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.78	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.00	0.02	0.01	0.00		0.00	0.00		0.00	0.00		20.67		0.00	0.00	20.79
Mobile	5.49	10.54	50.59	0.06	6.32	0.38	6.70	0.09	0.33	0.41		5,870.45		0.38		5,878.38
Total	**6.27**	**10.56**	**50.60**	**0.06**	**6.32**	**0.38**	**6.70**	**0.09**	**0.33**	**0.41**		**5,891.12**		**0.38**	**0.00**	**5,899.17**

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.2 Demolition - 2011

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					1.30	0.00	1.30	0.00	0.00	0.00						0.00
Off-Road	2.34	15.85	9.86	0.02		1.25	1.25		1.25	1.25		1,476.12		0.21		1,480.54
Total	**2.34**	**15.85**	**9.86**	**0.02**	**1.30**	**1.25**	**2.55**	**0.00**	**1.25**	**1.25**		**1,476.12**		**0.21**		**1,480.54**

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	0.33	3.95	1.86	0.00	1.39	0.15	1.54	0.01	0.14	0.14		484.54		0.02		484.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.07	0.08	0.81	0.00	0.13	0.00	0.13	0.00	0.00	0.01		109.17		0.01		109.33
Total	**0.40**	**4.03**	**2.67**	**0.00**	**1.52**	**0.15**	**1.67**	**0.01**	**0.14**	**0.15**		**593.71**		**0.03**		**594.21**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.30	0.00	1.30	0.00	0.00	0.00						0.00
Off-Road	2.34	15.85	9.86	0.02		1.25	1.25		1.25	1.25	0.00	1,476.12		0.21		1,480.54
Total	**2.34**	**15.85**	**9.86**	**0.02**	**1.30**	**1.25**	**2.55**	**0.00**	**1.25**	**1.25**	**0.00**	**1,476.12**		**0.21**		**1,480.54**

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	0.33	3.95	1.86	0.00	0.02	0.15	0.17	0.01	0.14	0.14		484.54		0.02		484.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.07	0.08	0.81	0.00	0.00	0.00	0.01	0.00	0.00	0.01		109.17		0.01		109.33
Total	**0.40**	**4.03**	**2.67**	**0.00**	**0.02**	**0.15**	**0.18**	**0.01**	**0.14**	**0.15**		**593.71**		**0.03**		**594.21**

3.3 Site Preparation - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.69	0.00	0.69	0.00	0.00	0.00						0.00
Off-Road	1.98	14.38	8.76	0.01		0.98	0.98		0.98	0.98		1,402.65		0.18		1,406.38
Total	**1.98**	**14.38**	**8.76**	**0.01**	**0.69**	**0.98**	**1.67**	**0.00**	**0.98**	**0.98**		**1,402.65**		**0.18**		**1,406.38**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.03	0.04	0.40	0.00	0.07	0.00	0.07	0.00	0.00	0.00		54.59		0.00		54.67
Total	**0.03**	**0.04**	**0.40**	**0.00**	**0.07**	**0.00**	**0.07**	**0.00**	**0.00**	**0.00**		**54.59**		**0.00**		**54.67**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.69	0.00	0.69	0.00	0.00	0.00						0.00
Off-Road	1.98	14.38	8.76	0.01		0.98	0.98		0.98	0.98	0.00	1,402.65		0.18		1,406.38
Total	**1.98**	**14.38**	**8.76**	**0.01**	**0.69**	**0.98**	**1.67**	**0.00**	**0.98**	**0.98**	**0.00**	**1,402.65**		**0.18**		**1,406.38**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.03	0.04	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		54.59		0.00		54.67
Total	**0.03**	**0.04**	**0.40**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**54.59**		**0.00**		**54.67**

3.4 Grading - 2011

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					1.10	0.00	1.10	0.41	0.00	0.41						0.00
Off-Road	2.34	15.85	9.86	0.02		1.25	1.25		1.25	1.25		1,476.12		0.21		1,480.54
Total	**2.34**	**15.85**	**9.86**	**0.02**	**1.10**	**1.25**	**2.35**	**0.41**	**1.25**	**1.66**		**1,476.12**		**0.21**		**1,480.54**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.07	0.08	0.81	0.00	0.13	0.00	0.13	0.00	0.00	0.01		109.17		0.01		109.33
Total	**0.07**	**0.08**	**0.81**	**0.00**	**0.13**	**0.00**	**0.13**	**0.00**	**0.00**	**0.01**		**109.17**		**0.01**		**109.33**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.10	0.00	1.10	0.41	0.00	0.41						0.00
Off-Road	2.34	15.85	9.86	0.02		1.25	1.25		1.25	1.25	0.00	1,476.12		0.21		1,480.54
Total	**2.34**	**15.85**	**9.86**	**0.02**	**1.10**	**1.25**	**2.35**	**0.41**	**1.25**	**1.66**	**0.00**	**1,476.12**		**0.21**		**1,480.54**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.07	0.08	0.81	0.00	0.00	0.00	0.01	0.00	0.00	0.01		109.17		0.01		109.33
Total	**0.07**	**0.08**	**0.81**	**0.00**	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**109.17**		**0.01**		**109.33**

3.5 Building Construction - 2011

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	2.60	19.11	10.99	0.02		1.30	1.30		1.30	1.30		1,945.40		0.23		1,950.29
Total	**2.60**	**19.11**	**10.99**	**0.02**		**1.30**	**1.30**		**1.30**	**1.30**		**1,945.40**		**0.23**		**1,950.29**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.09	1.00	0.57	0.00	0.05	0.03	0.08	0.00	0.03	0.03		135.83		0.00		135.91
Worker	0.06	0.07	0.73	0.00	0.12	0.00	0.12	0.00	0.00	0.01		98.26		0.01		98.40
Total	**0.15**	**1.07**	**1.30**	**0.00**	**0.17**	**0.03**	**0.20**	**0.00**	**0.03**	**0.04**		**234.09**		**0.01**		**234.31**

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	2.60	19.11	10.99	0.02		1.30	1.30		1.30	1.30	0.00	1,945.40		0.23		1,950.29
Total	**2.60**	**19.11**	**10.99**	**0.02**		**1.30**	**1.30**		**1.30**	**1.30**	**0.00**	**1,945.40**		**0.23**		**1,950.29**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.09	1.00	0.57	0.00	0.00	0.03	0.04	0.00	0.03	0.03		135.83		0.00		135.91
Worker	0.06	0.07	0.73	0.00	0.00	0.00	0.01	0.00	0.00	0.01		98.26		0.01		98.40
Total	**0.15**	**1.07**	**1.30**	**0.00**	**0.00**	**0.03**	**0.05**	**0.00**	**0.03**	**0.04**		**234.09**		**0.01**		**234.31**

3.6 Paving - 2011

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	2.63	16.21	9.93	0.02		1.39	1.39		1.39	1.39		1,408.52		0.24		1,413.47
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**2.63**	**16.21**	**9.93**	**0.02**		**1.39**	**1.39**		**1.39**	**1.39**		**1,408.52**		**0.24**		**1,413.47**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.12	0.14	1.45	0.00	0.23	0.01	0.24	0.00	0.01	0.01		196.51		0.01		196.80
Total	**0.12**	**0.14**	**1.45**	**0.00**	**0.23**	**0.01**	**0.24**	**0.00**	**0.01**	**0.01**		**196.51**		**0.01**		**196.80**

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	2.63	16.21	9.93	0.02		1.39	1.39		1.39	1.39	0.00	1,408.52		0.24		1,413.47
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**2.63**	**16.21**	**9.93**	**0.02**		**1.39**	**1.39**		**1.39**	**1.39**	**0.00**	**1,408.52**		**0.24**		**1,413.47**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.12	0.14	1.45	0.00	0.01	0.01	0.02	0.00	0.01	0.01		196.51		0.01		196.80
Total	**0.12**	**0.14**	**1.45**	**0.00**	**0.01**	**0.01**	**0.02**	**0.00**	**0.01**	**0.01**		**196.51**		**0.01**		**196.80**

3.7 Architectural Coating - 2011

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	77.80					0.00	0.00		0.00	0.00						0.00
Off-Road	0.56	3.37	1.98	0.00		0.31	0.31		0.31	0.31		281.19		0.05		282.25
Total	**78.36**	**3.37**	**1.98**	**0.00**		**0.31**	**0.31**		**0.31**	**0.31**		**281.19**		**0.05**		**282.25**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.01	0.02	0.16	0.00	0.03	0.00	0.03	0.00	0.00	0.00		21.83		0.00		21.87
Total	**0.01**	**0.02**	**0.16**	**0.00**	**0.03**	**0.00**	**0.03**	**0.00**	**0.00**	**0.00**		**21.83**		**0.00**		**21.87**

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	77.80					0.00	0.00		0.00	0.00						0.00
Off-Road	0.56	3.37	1.98	0.00		0.31	0.31		0.31	0.31	0.00	281.19		0.05		282.25
Total	**78.36**	**3.37**	**1.98**	**0.00**		**0.31**	**0.31**		**0.31**	**0.31**	**0.00**	**281.19**		**0.05**		**282.25**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.01	0.02	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00		21.83		0.00		21.87
Total	**0.01**	**0.02**	**0.16**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**21.83**		**0.00**		**21.87**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.49	10.54	50.59	0.06	6.32	0.38	6.70	0.09	0.33	0.41		5,870.45		0.38		5,878.38
Unmitigated	5.49	10.54	50.59	0.06	6.32	0.38	6.70	0.09	0.33	0.41		5,870.45		0.38		5,878.38
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	1,240.96	1,177.12	572.04	1,749,909	1,749,909
Total	1,240.96	1,177.12	572.04	1,749,909	1,749,909

4.3 Trip Type Information

	Miles			Trip %		
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
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.00	0.02	0.01	0.00		0.00	0.00		0.00	0.00		20.67		0.00	0.00	20.79
NaturalGas Unmitigated	0.00	0.02	0.01	0.00		0.00	0.00		0.00	0.00		20.67		0.00	0.00	20.79
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	lb/day										lb/day					
Strip Mall	175.671	0.00	0.02	0.01	0.00		0.00	0.00		0.00	0.00		20.67		0.00	0.00	20.79
Total		**0.00**	**0.02**	**0.01**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**20.67**		**0.00**	**0.00**	**20.79**

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	lb/day										lb/day					
Strip Mall	0.175671	0.00	0.02	0.01	0.00		0.00	0.00		0.00	0.00		20.67		0.00	0.00	20.79
Total		**0.00**	**0.02**	**0.01**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**20.67**		**0.00**	**0.00**	**20.79**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.78	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Unmitigated	0.78	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.18					0.00	0.00		0.00	0.00						0.00
Consumer Products	0.60					0.00	0.00		0.00	0.00						0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**0.78**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

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	0.18					0.00	0.00		0.00	0.00						0.00
Consumer Products	0.60					0.00	0.00		0.00	0.00						0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**0.78**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

Retail Construction Output, Winter

6447: Del Mar Village - Retail Project

San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Strip Mall	28	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	San Diego Gas & Electric
Climate Zone	13		2.6		
		Precipitation Freq (Days)			
			40		

1.3 User Entered Comments

Project Characteristics -

Land Use - 28,500 square foot lot

Construction Phase -

Demolition -

Grading - maximum area disturbed is lot acreage of 0.65

Architectural Coating - California Green Bulding Standards VOC content limits is 150g/L

Vehicle Trips - Trip rates taken from KOA Traffic Impact Study
Trip Length = SANDAG's average regional trip length

Area Coating -

Area Mitigation -

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					
2011	78.38	20.21	12.62	0.02	2.82	1.40	4.22	0.42	1.40	1.67	0.00	2,170.95	0.00	0.25	0.00	2,176.18
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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					
2011	78.38	20.21	12.62	0.02	1.32	1.40	2.72	0.42	1.40	1.67	0.00	2,170.95	0.00	0.25	0.00	2,176.18
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

2.2 Overall Operational - Not Applicable; Deleted from Output Files

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.2 Demolition - 2011

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					1.30	0.00	1.30	0.00	0.00	0.00						0.00
Off-Road	2.34	15.85	9.86	0.02		1.25	1.25		1.25	1.25		1,476.12		0.21		1,480.54
Total	**2.34**	**15.85**	**9.86**	**0.02**	**1.30**	**1.25**	**2.55**	**0.00**	**1.25**	**1.25**		**1,476.12**		**0.21**		**1,480.54**

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	0.34	4.06	1.99	0.00	1.39	0.15	1.54	0.01	0.14	0.14		482.10		0.02		482.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.09	0.77	0.00	0.13	0.00	0.13	0.00	0.00	0.01		100.84		0.01		101.00
Total	**0.42**	**4.15**	**2.76**	**0.00**	**1.52**	**0.15**	**1.67**	**0.01**	**0.14**	**0.15**		**582.94**		**0.03**		**583.45**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.30	0.00	1.30	0.00	0.00	0.00						0.00
Off-Road	2.34	15.85	9.86	0.02		1.25	1.25		1.25	1.25	0.00	1,476.12		0.21		1,480.54
Total	**2.34**	**15.85**	**9.86**	**0.02**	**1.30**	**1.25**	**2.55**	**0.00**	**1.25**	**1.25**	**0.00**	**1,476.12**		**0.21**		**1,480.54**

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	0.34	4.06	1.99	0.00	0.02	0.15	0.17	0.01	0.14	0.14		482.10		0.02		482.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.09	0.77	0.00	0.00	0.00	0.01	0.00	0.00	0.01		100.84		0.01		101.00
Total	**0.42**	**4.15**	**2.76**	**0.00**	**0.02**	**0.15**	**0.18**	**0.01**	**0.14**	**0.15**		**582.94**		**0.03**		**583.45**

3.3 Site Preparation - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.69	0.00	0.69	0.00	0.00	0.00						0.00
Off-Road	1.98	14.38	8.76	0.01		0.98	0.98		0.98	0.98		1,402.65		0.18		1,406.38
Total	**1.98**	**14.38**	**8.76**	**0.01**	**0.69**	**0.98**	**1.67**	**0.00**	**0.98**	**0.98**		**1,402.65**		**0.18**		**1,406.38**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.04	0.04	0.38	0.00	0.07	0.00	0.07	0.00	0.00	0.00		50.42		0.00		50.50
Total	**0.04**	**0.04**	**0.38**	**0.00**	**0.07**	**0.00**	**0.07**	**0.00**	**0.00**	**0.00**		**50.42**		**0.00**		**50.50**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.69	0.00	0.69	0.00	0.00	0.00						0.00
Off-Road	1.98	14.38	8.76	0.01		0.98	0.98		0.98	0.98	0.00	1,402.65		0.18		1,406.38
Total	**1.98**	**14.38**	**8.76**	**0.01**	**0.69**	**0.98**	**1.67**	**0.00**	**0.98**	**0.98**	**0.00**	**1,402.65**		**0.18**		**1,406.38**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.04	0.04	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00		50.42		0.00		50.50
Total	**0.04**	**0.04**	**0.38**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**50.42**		**0.00**		**50.50**

3.4 Grading - 2011

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					1.10	0.00	1.10	0.41	0.00	0.41						0.00
Off-Road	2.34	15.85	9.86	0.02		1.25	1.25		1.25	1.25		1,476.12		0.21		1,480.54
Total	**2.34**	**15.85**	**9.86**	**0.02**	**1.10**	**1.25**	**2.35**	**0.41**	**1.25**	**1.66**		**1,476.12**		**0.21**		**1,480.54**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.09	0.77	0.00	0.13	0.00	0.13	0.00	0.00	0.01		100.84		0.01		101.00
Total	**0.08**	**0.09**	**0.77**	**0.00**	**0.13**	**0.00**	**0.13**	**0.00**	**0.00**	**0.01**		**100.84**		**0.01**		**101.00**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.10	0.00	1.10	0.41	0.00	0.41						0.00
Off-Road	2.34	15.85	9.86	0.02		1.25	1.25		1.25	1.25	0.00	1,476.12		0.21		1,480.54
Total	**2.34**	**15.85**	**9.86**	**0.02**	**1.10**	**1.25**	**2.35**	**0.41**	**1.25**	**1.66**	**0.00**	**1,476.12**		**0.21**		**1,480.54**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.09	0.77	0.00	0.00	0.00	0.01	0.00	0.00	0.01		100.84		0.01		101.00
Total	**0.08**	**0.09**	**0.77**	**0.00**	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**100.84**		**0.01**		**101.00**

3.5 Building Construction - 2011

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	2.60	19.11	10.99	0.02		1.30	1.30		1.30	1.30		1,945.40		0.23		1,950.29
Total	**2.60**	**19.11**	**10.99**	**0.02**		**1.30**	**1.30**		**1.30**	**1.30**		**1,945.40**		**0.23**		**1,950.29**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.09	1.02	0.64	0.00	0.05	0.03	0.08	0.00	0.03	0.03		134.79		0.00		134.89
Worker	0.07	0.08	0.69	0.00	0.12	0.00	0.12	0.00	0.00	0.01		90.76		0.01		90.90
Total	**0.16**	**1.10**	**1.33**	**0.00**	**0.17**	**0.03**	**0.20**	**0.00**	**0.03**	**0.04**		**225.55**		**0.01**		**225.79**

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	2.60	19.11	10.99	0.02		1.30	1.30		1.30	1.30	0.00	1,945.40		0.23		1,950.29
Total	**2.60**	**19.11**	**10.99**	**0.02**		**1.30**	**1.30**		**1.30**	**1.30**	**0.00**	**1,945.40**		**0.23**		**1,950.29**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.09	1.02	0.64	0.00	0.00	0.03	0.04	0.00	0.03	0.03		134.79		0.00		134.89
Worker	0.07	0.08	0.69	0.00	0.00	0.00	0.01	0.00	0.00	0.01		90.76		0.01		90.90
Total	**0.16**	**1.10**	**1.33**	**0.00**	**0.00**	**0.03**	**0.05**	**0.00**	**0.03**	**0.04**		**225.55**		**0.01**		**225.79**

3.6 Paving - 2011

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	2.63	16.21	9.93	0.02		1.39	1.39		1.39	1.39		1,408.52		0.24		1,413.47
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**2.63**	**16.21**	**9.93**	**0.02**		**1.39**	**1.39**		**1.39**	**1.39**		**1,408.52**		**0.24**		**1,413.47**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.14	0.16	1.38	0.00	0.23	0.01	0.24	0.00	0.01	0.01		181.52		0.01		181.80
Total	**0.14**	**0.16**	**1.38**	**0.00**	**0.23**	**0.01**	**0.24**	**0.00**	**0.01**	**0.01**		**181.52**		**0.01**		**181.80**

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	2.63	16.21	9.93	0.02		1.39	1.39		1.39	1.39	0.00	1,408.52		0.24		1,413.47
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**2.63**	**16.21**	**9.93**	**0.02**		**1.39**	**1.39**		**1.39**	**1.39**	**0.00**	**1,408.52**		**0.24**		**1,413.47**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.14	0.16	1.38	0.00	0.01	0.01	0.02	0.00	0.01	0.01		181.52		0.01		181.80
Total	**0.14**	**0.16**	**1.38**	**0.00**	**0.01**	**0.01**	**0.02**	**0.00**	**0.01**	**0.01**		**181.52**		**0.01**		**181.80**

3.7 Architectural Coating - 2011

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	77.80					0.00	0.00		0.00	0.00						0.00
Off-Road	0.56	3.37	1.98	0.00		0.31	0.31		0.31	0.31		281.19		0.05		282.25
Total	**78.36**	**3.37**	**1.98**	**0.00**		**0.31**	**0.31**		**0.31**	**0.31**		**281.19**		**0.05**		**282.25**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.02	0.02	0.15	0.00	0.03	0.00	0.03	0.00	0.00	0.00		20.17		0.00		20.20
Total	**0.02**	**0.02**	**0.15**	**0.00**	**0.03**	**0.00**	**0.03**	**0.00**	**0.00**	**0.00**		**20.17**		**0.00**		**20.20**

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	77.80					0.00	0.00		0.00	0.00						0.00
Off-Road	0.56	3.37	1.98	0.00		0.31	0.31		0.31	0.31	0.00	281.19		0.05		282.25
Total	**78.36**	**3.37**	**1.98**	**0.00**		**0.31**	**0.31**		**0.31**	**0.31**	**0.00**	**281.19**		**0.05**		**282.25**

Mitigated Construction Off-Site

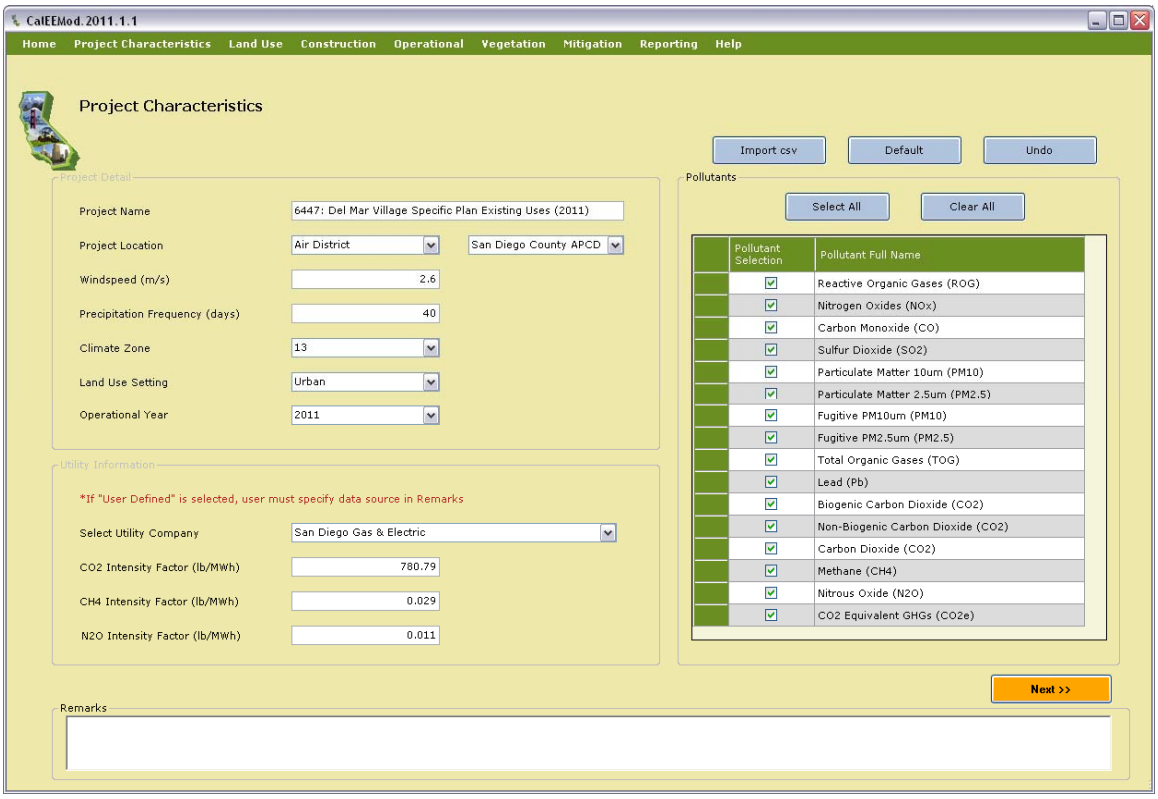
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.02	0.02	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00		20.17		0.00		20.20
Total	**0.02**	**0.02**	**0.15**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**20.17**		**0.00**		**20.20**

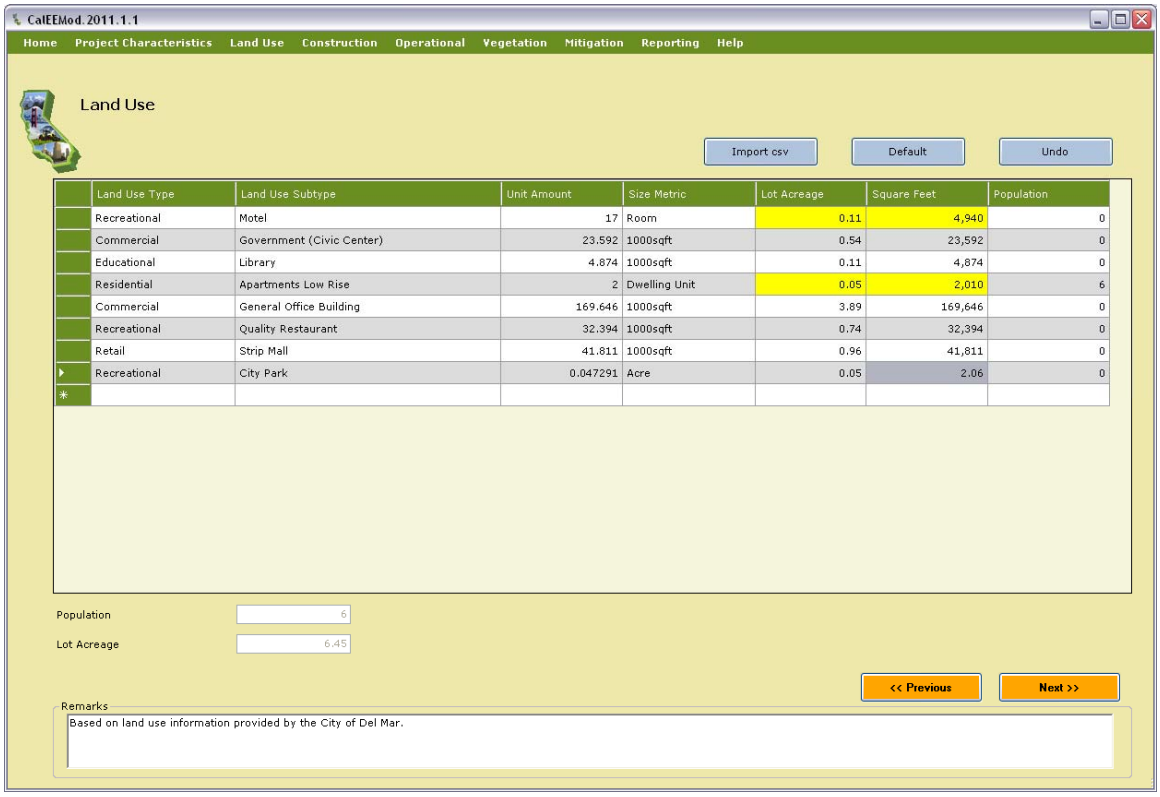
ATTACHMENT 2

CalEEMod Input, Existing Use

CalEEMod Input

2011 Existing Use





CalEEMod Input

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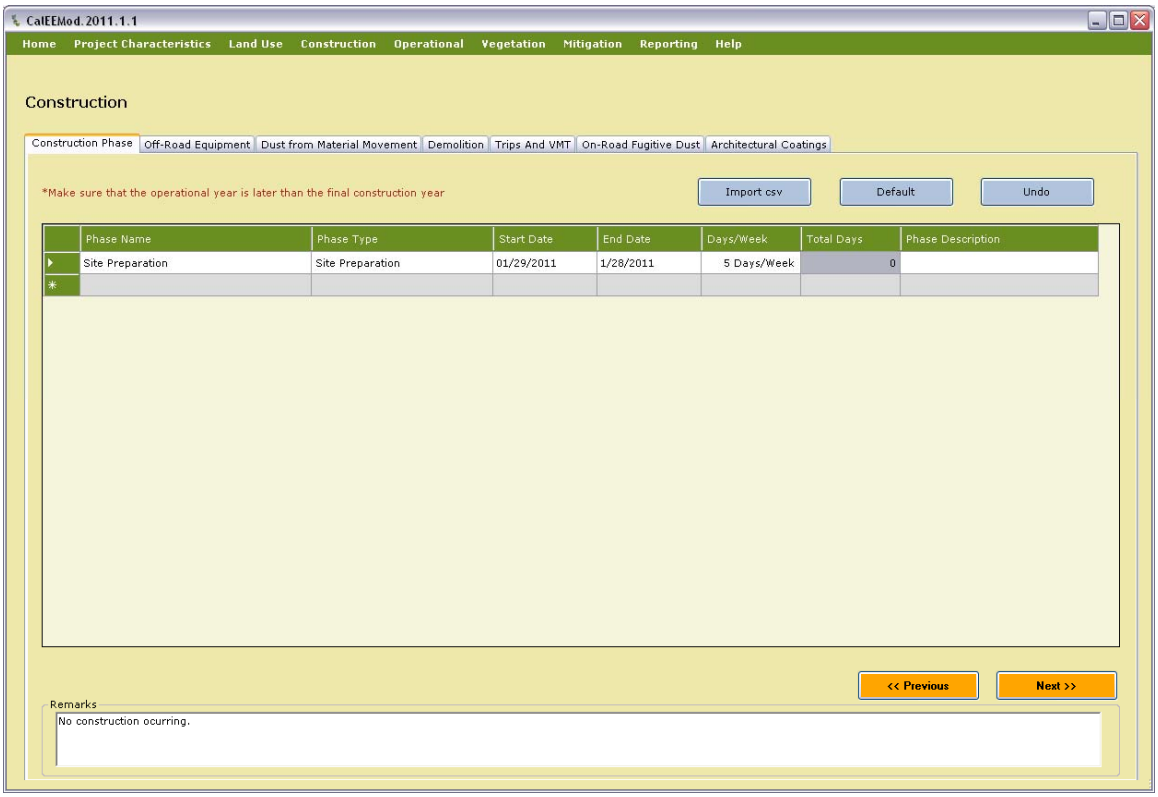

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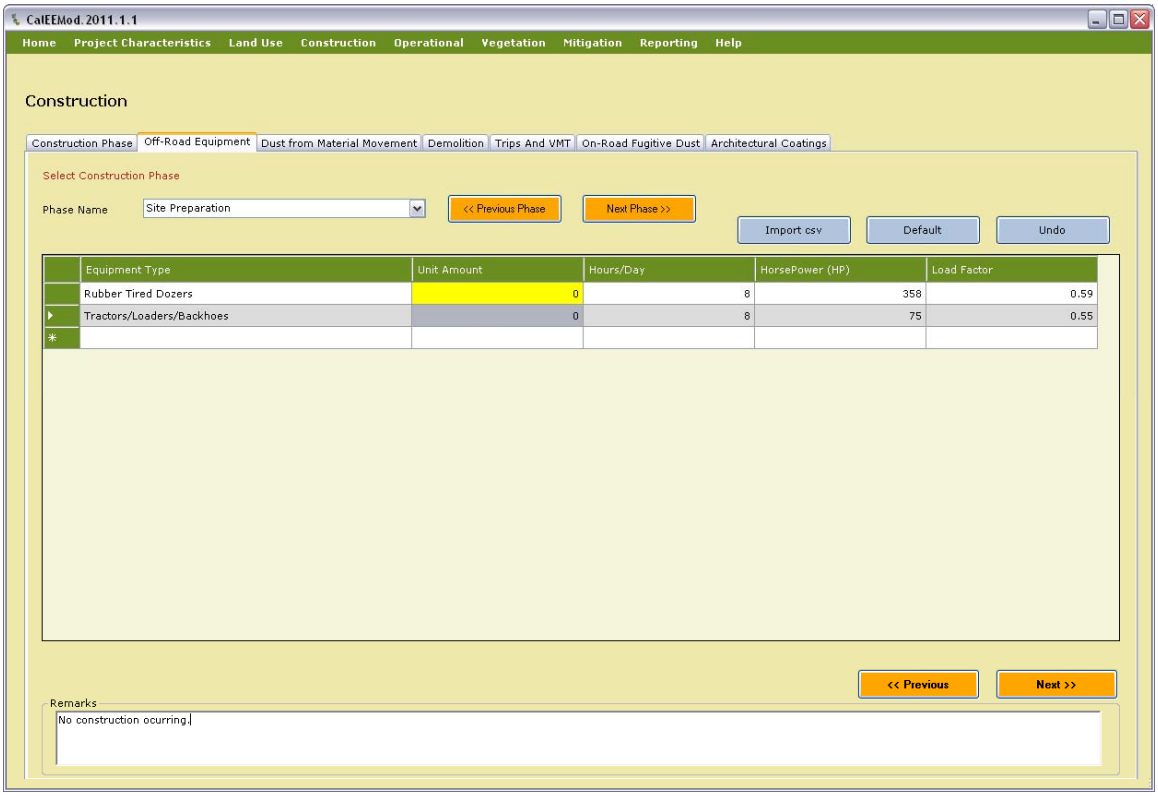

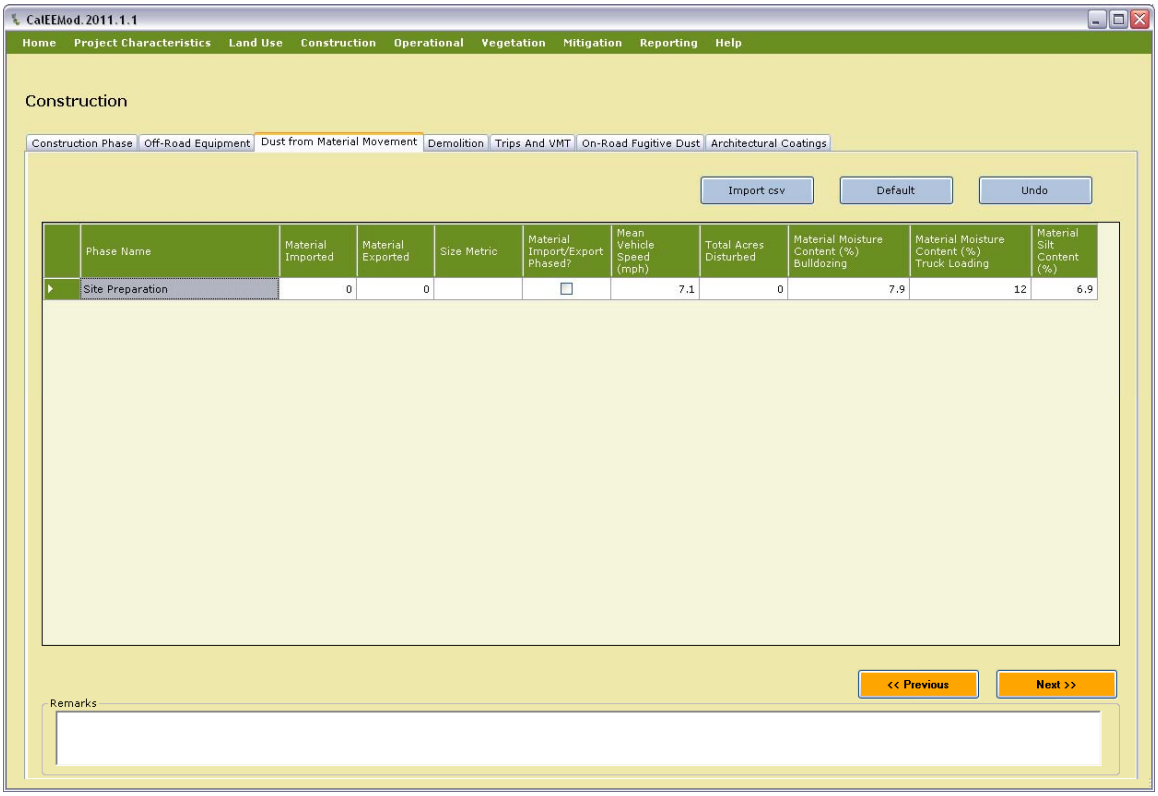

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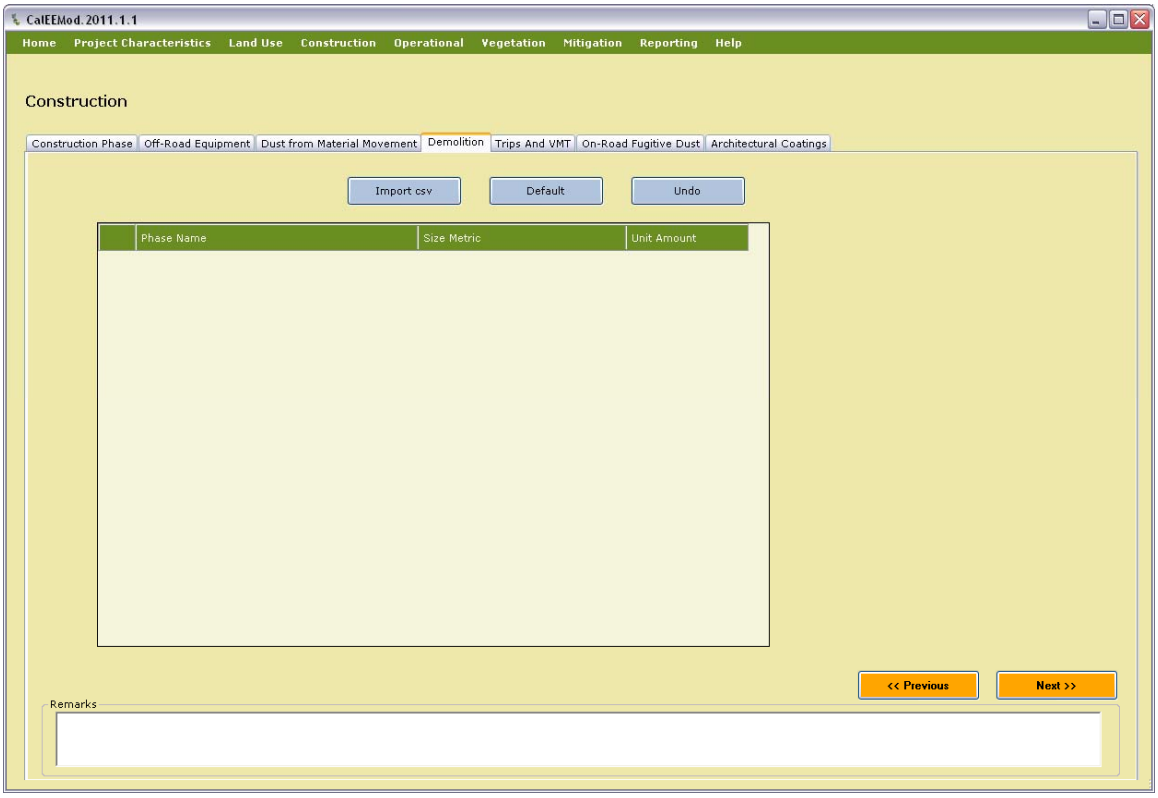

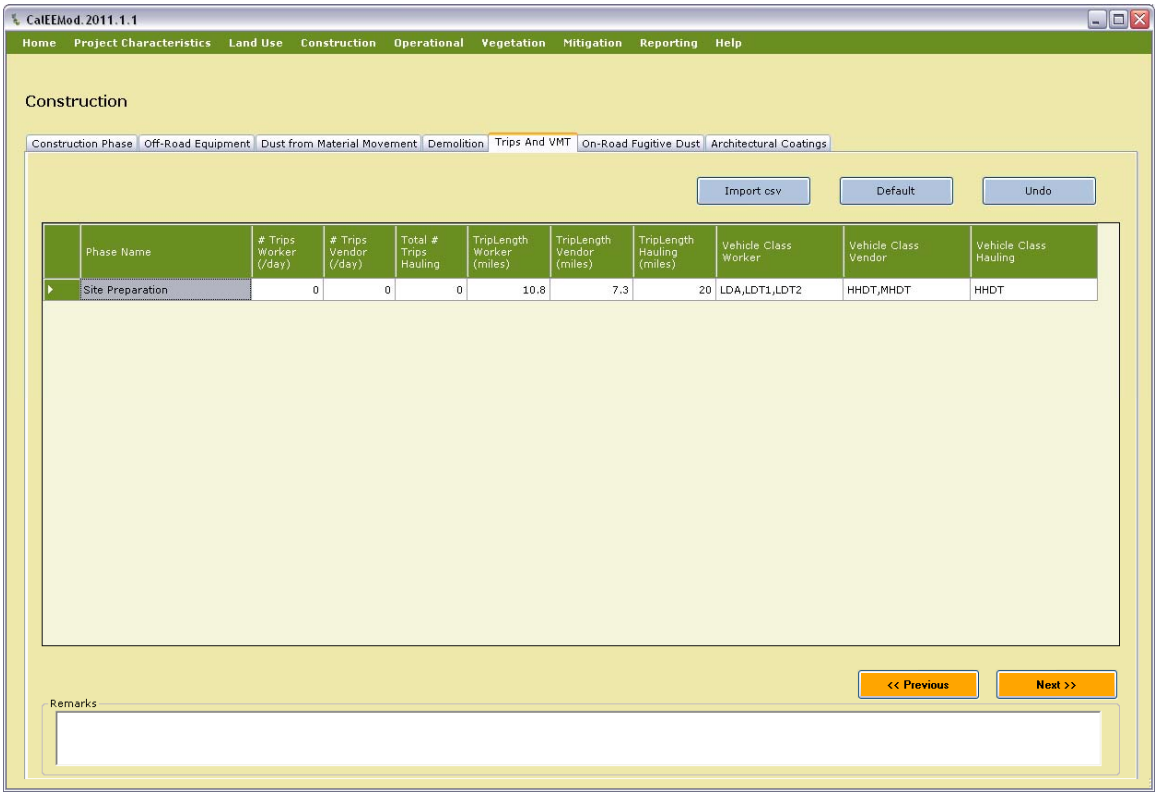

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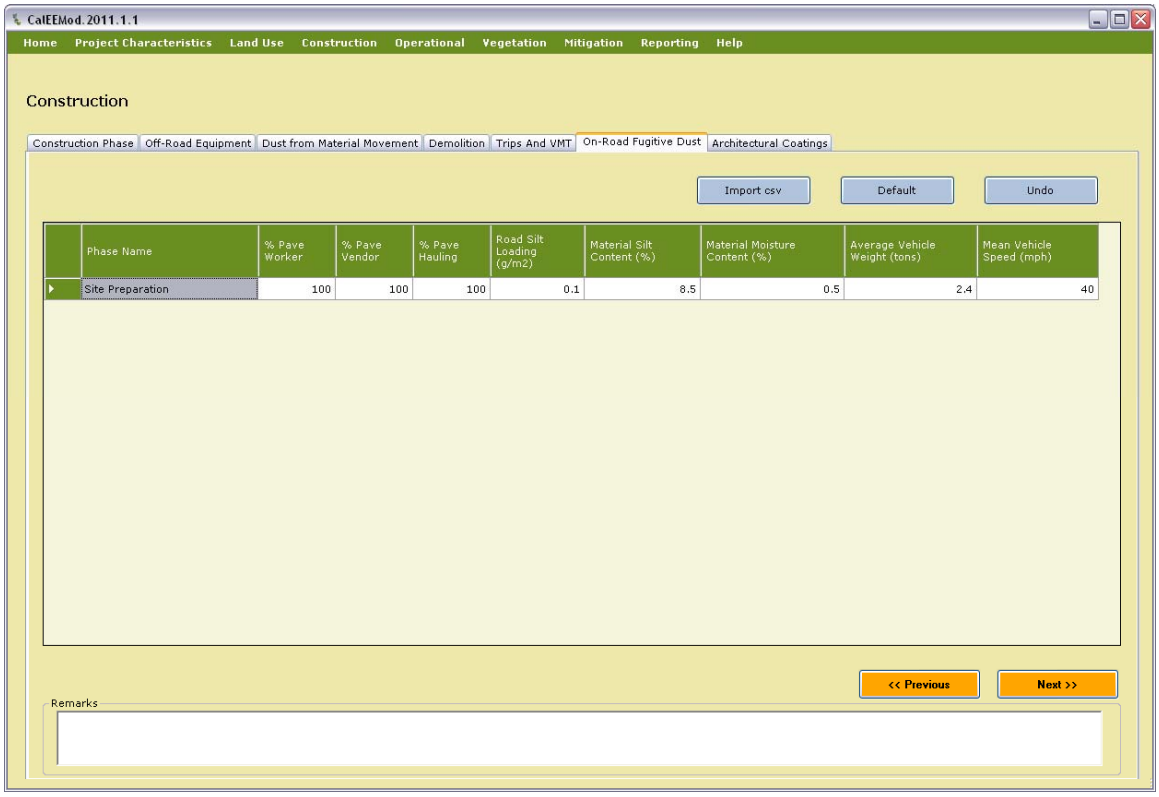
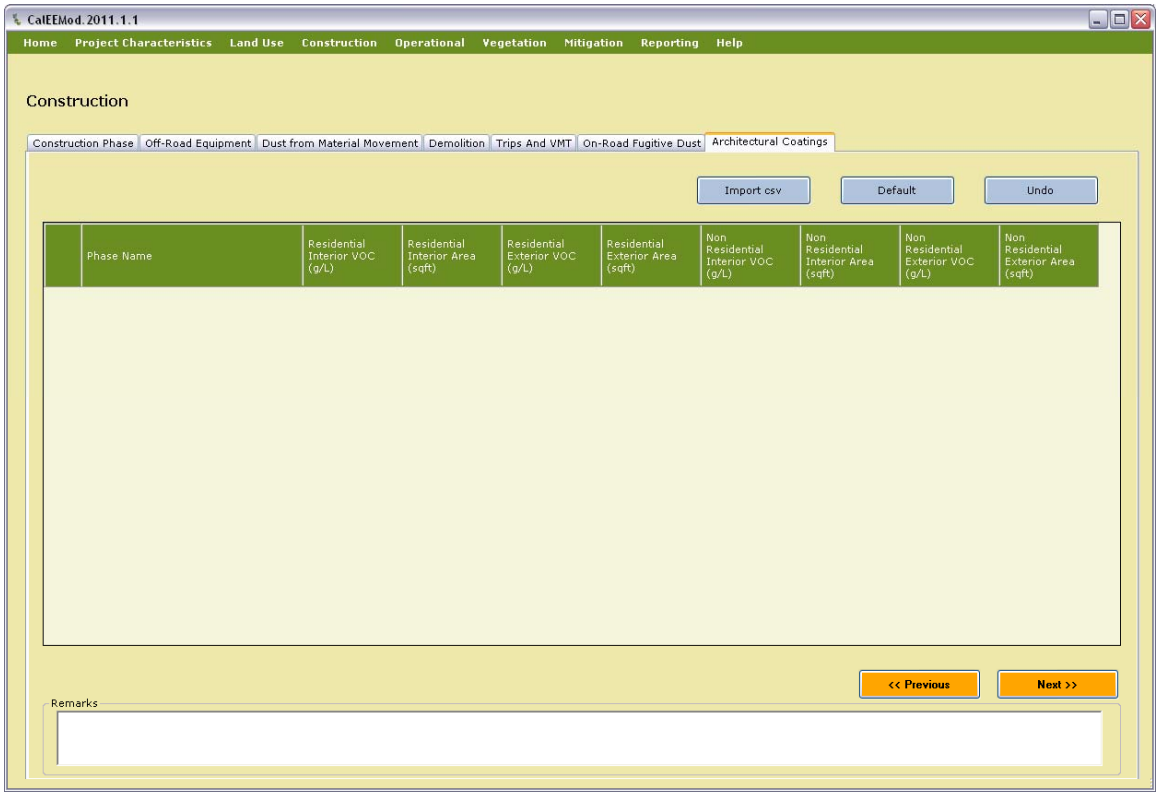




CalEEMod Input

2011 Existing Use

CalEEMod.2011.1.1

Home | Project Characteristics | Land Use | Construction | Operational | Vegetation | Mitigation | Reporting | Help

Operational - Mobile

Vehicle Trips | Vehicle Emissions | Road Dust

Import csv | Default | Undo

	Land Use SubType	Size Metric	WkDy Trip Rate (/size /day)	Sat Trip Rate (/size /day)	Sun Trip Rate (/size /day)	Res H-W Trip Length (miles)	Res H-S Trip Length (miles)	Res H-O Trip Length (miles)	Non Res C-C Trip Length (miles)	Non Res C-W Trip Length (miles)	Non Res C-NW Trip Length (miles)	Primar Trip (%)	Divert Trip (%)	Pass-B Trip (%)	Res H-W Trip (%)	Res H-S Trip (%)	Res H-O Trip (%)	Non Res C-C Trip (%)	Non Res C-W Trip (%)	Non Res C-NW Trip (%)
	Apartments Low Rise	Dwelling Unit	8	7.16	6.07	5.8	5.8	5.8	0	0	0	86	11	3	41.6	18.8	39.6	0	0	0
	City Park	Acre	1.59	1.59	1.59	0	0	0	5.8	5.8	5.8	66	28	6	0	0	0	48	33	19
	General Office Buildi...	1000sqft	20	0.41	0.14	0	0	0	5.8	5.8	5.8	77	19	4	0	0	0	48	33	19
	Government (Civic ...	1000sqft	30	0	0	0	0	0	5.8	5.8	5.8	50	34	16	0	0	0	20	75	5
	Library	1000sqft	50	46.55	25.49	0	0	0	5.8	5.8	5.8	44	44	12	0	0	0	43	52	5
	Motel	Room	9	10.5	8.4	0	0	0	5.8	5.8	5.8	58	38	4	0	0	0	62	19	19
	Quality Restaurant	1000sqft	160	94.36	72.16	0	0	0	5.8	5.8	5.8	38	18	44	0	0	0	69	12	19
▶	Strip Mall	1000sqft	40	42.04	20.43	0	0	0	5.8	5.8	5.8	45	40	15	0	0	0	64.4	16.6	19

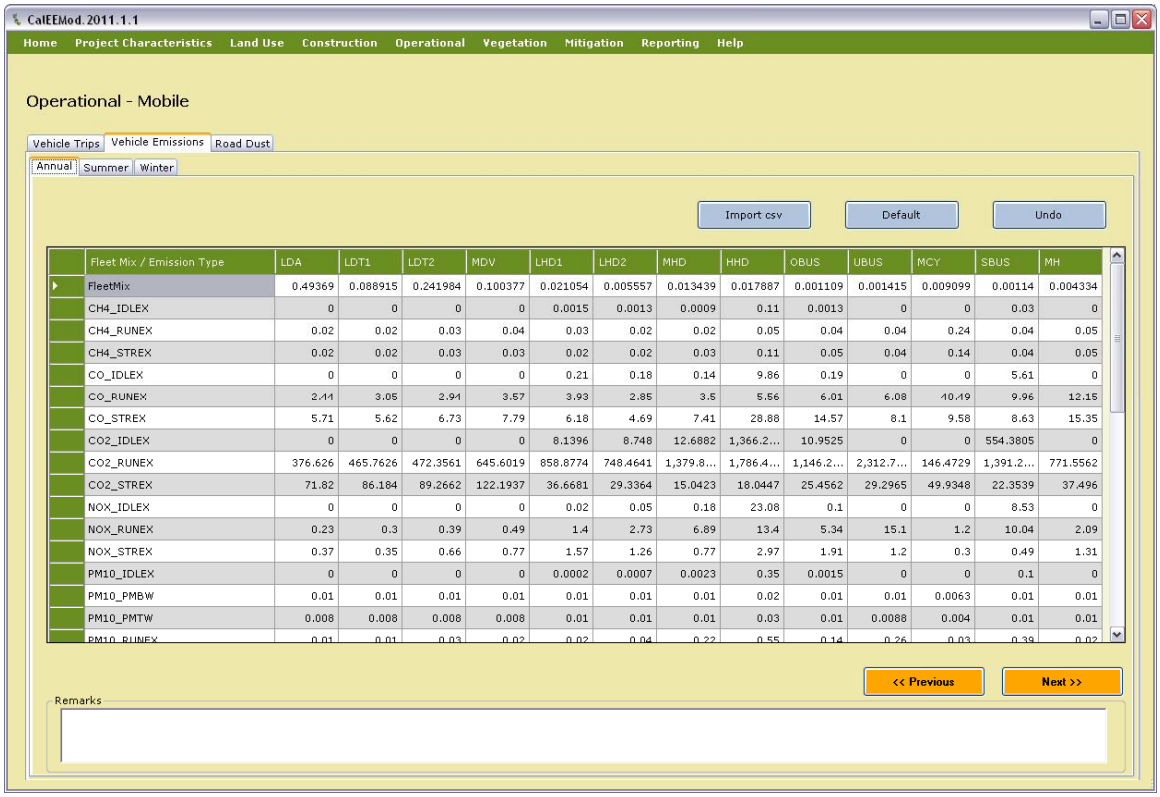
<< Previous | Next >>

Remarks

Trip rates based on KOA Traffic Impact Study
Trip length adjusted to SANDAG's regional average trip length of 5.8 miles

CalEEMod Input

2011 Existing Use



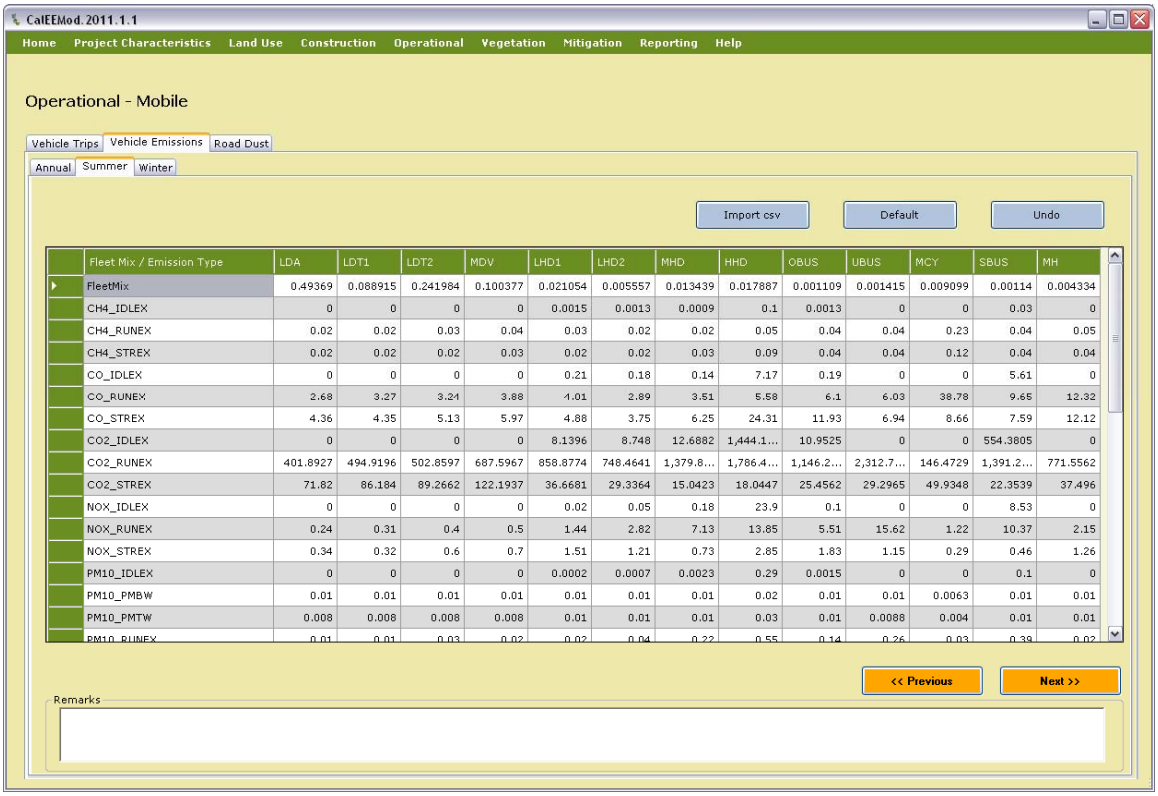
Fleet Mix / Emission Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
FleetMix	0.49369	0.088915	0.241984	0.100377	0.021054	0.005557	0.013439	0.017887	0.001109	0.001415	0.009099	0.00114	0.004334
CH4_IDLEX	0	0	0	0	0.0015	0.0013	0.0009	0.11	0.0013	0	0	0.03	0
CH4_RUNEX	0.02	0.02	0.03	0.04	0.03	0.02	0.02	0.05	0.04	0.04	0.24	0.04	0.05
CH4_STREX	0.02	0.02	0.03	0.03	0.02	0.02	0.03	0.11	0.05	0.04	0.14	0.04	0.05
CO_IDLEX	0	0	0	0	0.21	0.18	0.14	9.86	0.19	0	0	5.61	0
CO_RUNEX	2.44	3.05	2.94	3.57	3.93	2.85	3.5	5.56	6.01	6.08	40.49	9.96	12.15
CO_STREX	5.71	5.62	6.73	7.79	6.18	4.69	7.41	28.88	14.57	8.1	9.58	8.63	15.35
CO2_IDLEX	0	0	0	0	8.1396	8.748	12.6882	1,366.2...	10.9525	0	0	554.3805	0
CO2_RUNEX	376.626	465.7626	472.3561	645.6019	858.8774	748.4641	1,379.8...	1,786.4...	1,146.2...	2,312.7...	146.4729	1,391.2...	771.5562
CO2_STREX	71.82	86.184	89.2662	122.1937	36.6681	29.3364	15.0423	18.0447	25.4562	29.2965	49.9348	22.3539	37.496
NOX_IDLEX	0	0	0	0	0.02	0.05	0.18	23.08	0.1	0	0	8.53	0
NOX_RUNEX	0.23	0.3	0.39	0.49	1.4	2.73	6.89	13.4	5.34	15.1	1.2	10.04	2.09
NOX_STREX	0.37	0.35	0.66	0.77	1.57	1.26	0.77	2.97	1.91	1.2	0.3	0.49	1.31
PM10_IDLEX	0	0	0	0	0.0002	0.0007	0.0023	0.35	0.0015	0	0	0.1	0
PM10_PMBW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.0063	0.01	0.01
PM10_PMTW	0.008	0.008	0.008	0.008	0.01	0.01	0.01	0.03	0.01	0.0088	0.004	0.01	0.01
PM10_RUNEX	0.01	0.01	0.03	0.02	0.02	0.04	0.22	0.55	0.14	0.26	0.03	0.39	0.02

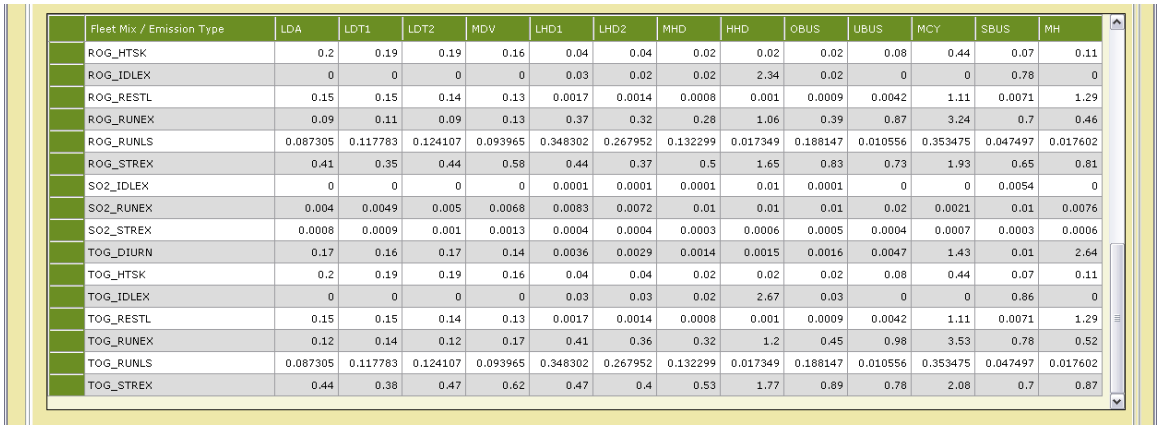
Fleet Mix / Emission Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
PM10_RUNEX	0.01	0.01	0.03	0.02	0.02	0.04	0.22	0.55	0.14	0.26	0.03	0.39	0.02
PM10_STREX	0.0072	0.0077	0.01	0.01	0.0021	0.002	0.0012	0.002	0.0027	0.0024	0.01	0.0013	0.0011
PM25_IDLEX	0	0	0	0	0.0002	0.0007	0.0021	0.32	0.0014	0	0	0.09	0
PM25_PMBW	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.01	0.0054	0.0054	0.0027	0.0054	0.0054
PM25_PMTW	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.0088	0.003	0.0022	0.001	0.003	0.003
PM25_RUNEX	0.01	0.01	0.02	0.02	0.02	0.03	0.2	0.51	0.13	0.23	0.02	0.36	0.02
PM25_STREX	0.0066	0.0071	0.01	0.01	0.002	0.0019	0.0011	0.0018	0.0025	0.0022	0.01	0.0012	0.001
ROG_DIURN	0.1	0.1	0.1	0.08	0.0023	0.0018	0.0009	0.0009	0.001	0.0031	0.84	0.0084	1.69
ROG_HTSK	0.18	0.18	0.17	0.14	0.04	0.04	0.02	0.02	0.02	0.07	0.38	0.07	0.11
ROG_IDLEX	0	0	0	0	0.03	0.02	0.02	2.49	0.02	0	0	0.78	0
ROG_RESTL	0.08	0.08	0.08	0.07	0.0009	0.0008	0.0004	0.0005	0.0005	0.0024	0.52	0.0039	0.76
ROG_RUNEX	0.09	0.11	0.08	0.12	0.36	0.31	0.28	1.06	0.38	0.87	3.39	0.71	0.45
ROG_RUNLS	0.092622	0.12696	0.134894	0.101632	0.360357	0.277543	0.13443	0.017319	0.191757	0.011371	0.381082	0.052364	0.018046
ROG_STREX	0.5	0.43	0.53	0.69	0.51	0.43	0.58	1.93	0.96	0.82	2.24	0.75	0.99
SO2_IDLEX	0	0	0	0	0.0001	0.0001	0.0001	0.01	0.0001	0	0	0.0054	0
SO2_RUNEX	0.0037	0.0046	0.0047	0.0063	0.0083	0.0072	0.01	0.01	0.01	0.02	0.0021	0.01	0.0076
SO2_STREX	0.0008	0.0009	0.001	0.0013	0.0005	0.0004	0.0003	0.0007	0.0005	0.0004	0.0007	0.0004	0.0006

Fleet Mix / Emission Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
ROG_HTSK	0.18	0.18	0.17	0.14	0.04	0.04	0.02	0.02	0.02	0.07	0.38	0.07	0.11
ROG_IDLEX	0	0	0	0	0.03	0.02	0.02	2.49	0.02	0	0	0.78	0
ROG_RESTL	0.08	0.08	0.08	0.07	0.0009	0.0008	0.0004	0.0005	0.0005	0.0024	0.52	0.0039	0.76
ROG_RUNEX	0.09	0.11	0.08	0.12	0.36	0.31	0.28	1.06	0.38	0.87	3.39	0.71	0.45
ROG_RUNLS	0.092622	0.12696	0.134894	0.101632	0.360357	0.277543	0.13443	0.017319	0.191757	0.011371	0.381082	0.052364	0.018046
ROG_STREX	0.5	0.43	0.53	0.69	0.51	0.43	0.58	1.93	0.96	0.82	2.24	0.75	0.99
SO2_IDLEX	0	0	0	0	0.0001	0.0001	0.0001	0.01	0.0001	0	0	0.0054	0
SO2_RUNEX	0.0037	0.0046	0.0047	0.0063	0.0083	0.0072	0.01	0.01	0.01	0.02	0.0021	0.01	0.0076
SO2_STREX	0.0008	0.0009	0.001	0.0013	0.0005	0.0004	0.0003	0.0007	0.0005	0.0004	0.0007	0.0004	0.0006
TOG_DIURN	0.1	0.1	0.1	0.08	0.0023	0.0018	0.0009	0.0009	0.001	0.0031	0.84	0.0084	1.69
TOG_HTSK	0.18	0.18	0.17	0.14	0.04	0.04	0.02	0.02	0.02	0.07	0.38	0.07	0.11
TOG_IDLEX	0	0	0	0	0.03	0.03	0.02	2.84	0.03	0	0	0.86	0
TOG_RESTL	0.08	0.08	0.08	0.07	0.0009	0.0008	0.0004	0.0005	0.0005	0.0024	0.52	0.0039	0.76
TOG_RUNEX	0.12	0.14	0.12	0.17	0.4	0.35	0.32	1.2	0.45	0.98	3.68	0.79	0.52
TOG_RUNLS	0.092622	0.12696	0.134894	0.101632	0.360357	0.277543	0.13443	0.017319	0.191757	0.011371	0.381082	0.052364	0.018046
TOG_STREX	0.53	0.46	0.57	0.74	0.54	0.46	0.62	2.07	1.03	0.88	2.41	0.81	1.06

CalEEMod Input

2011 Existing Use





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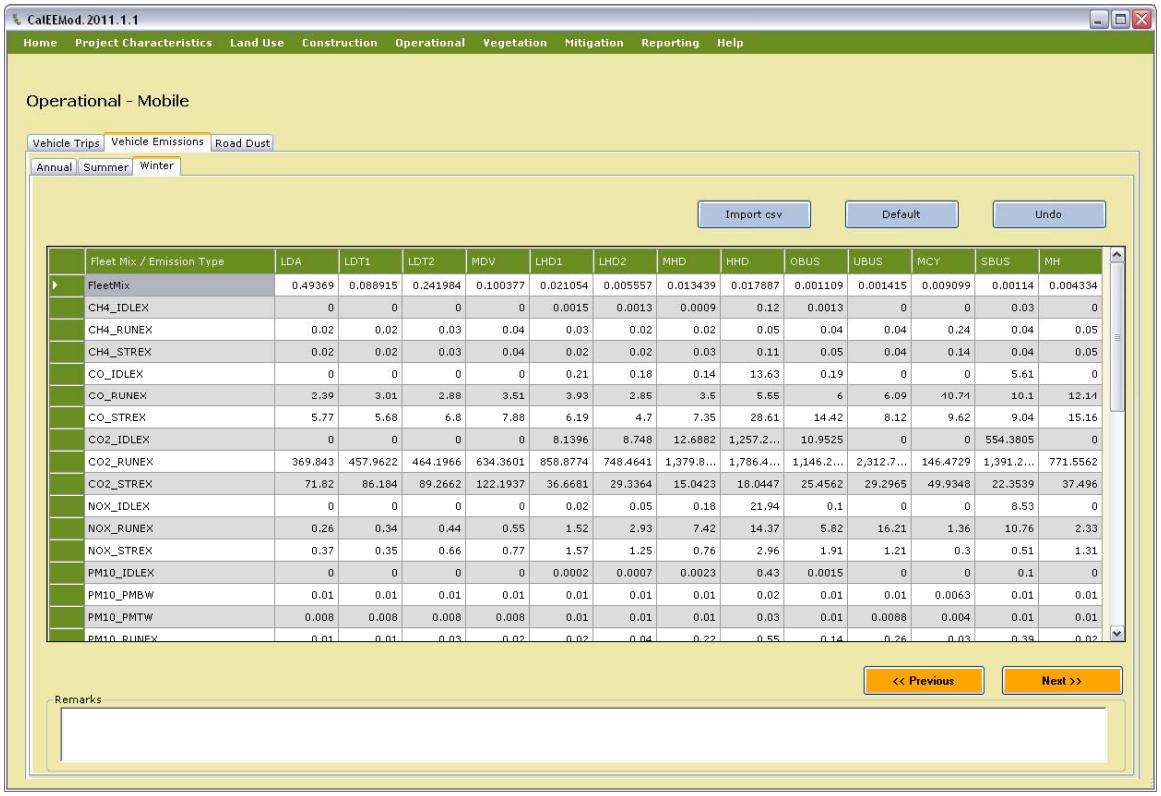

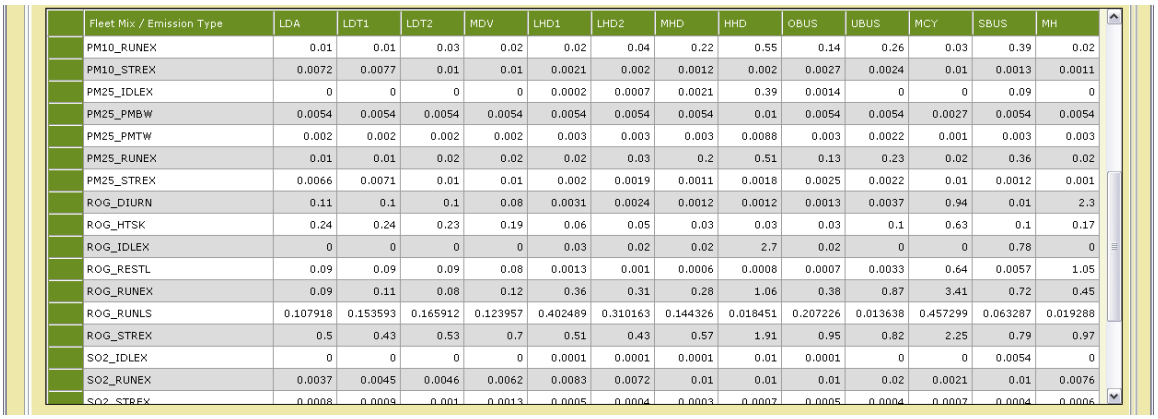

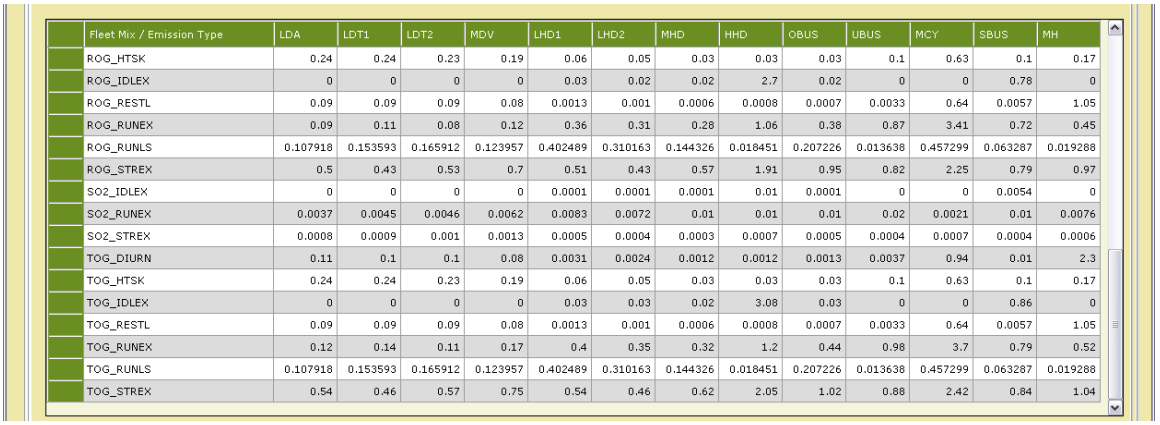

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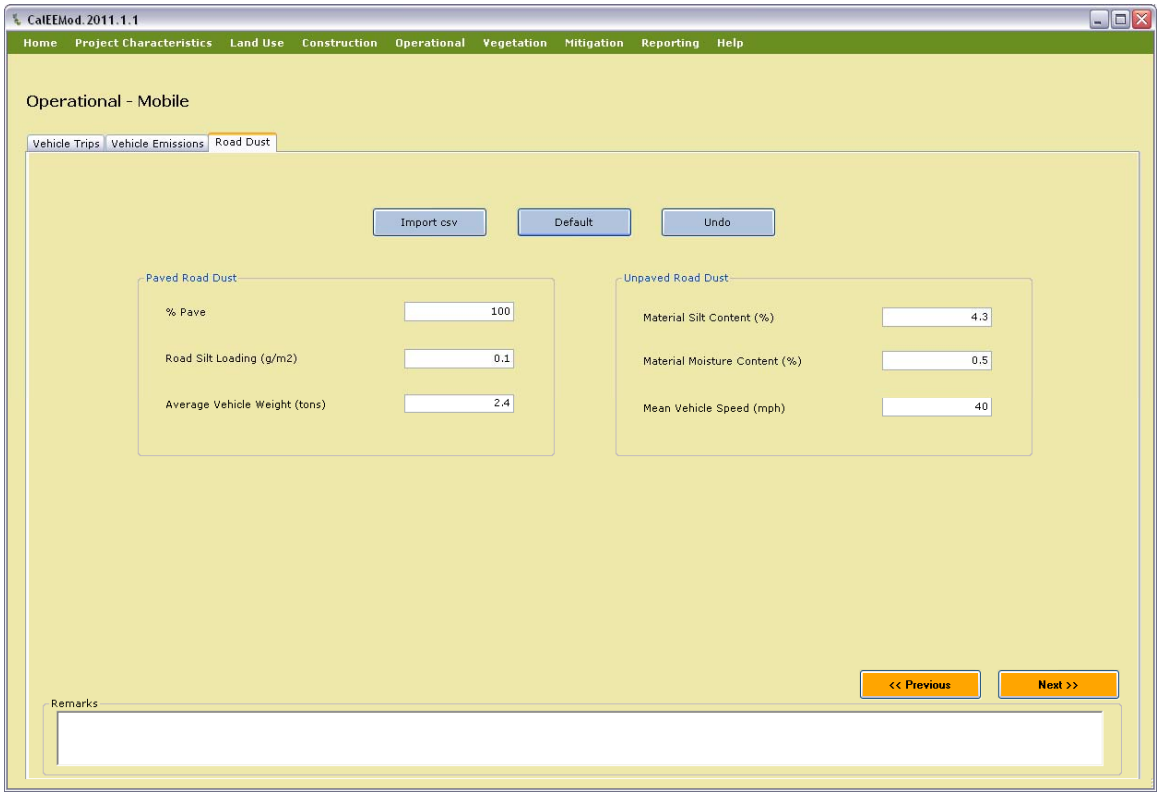

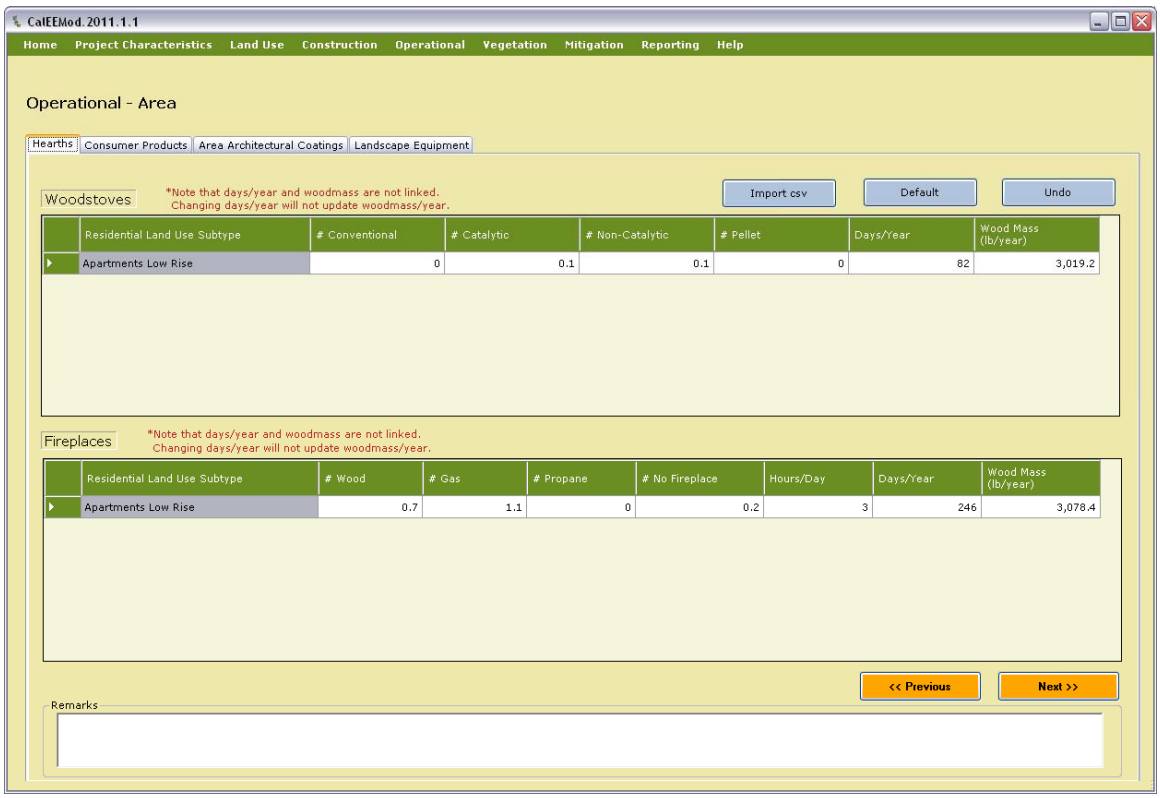

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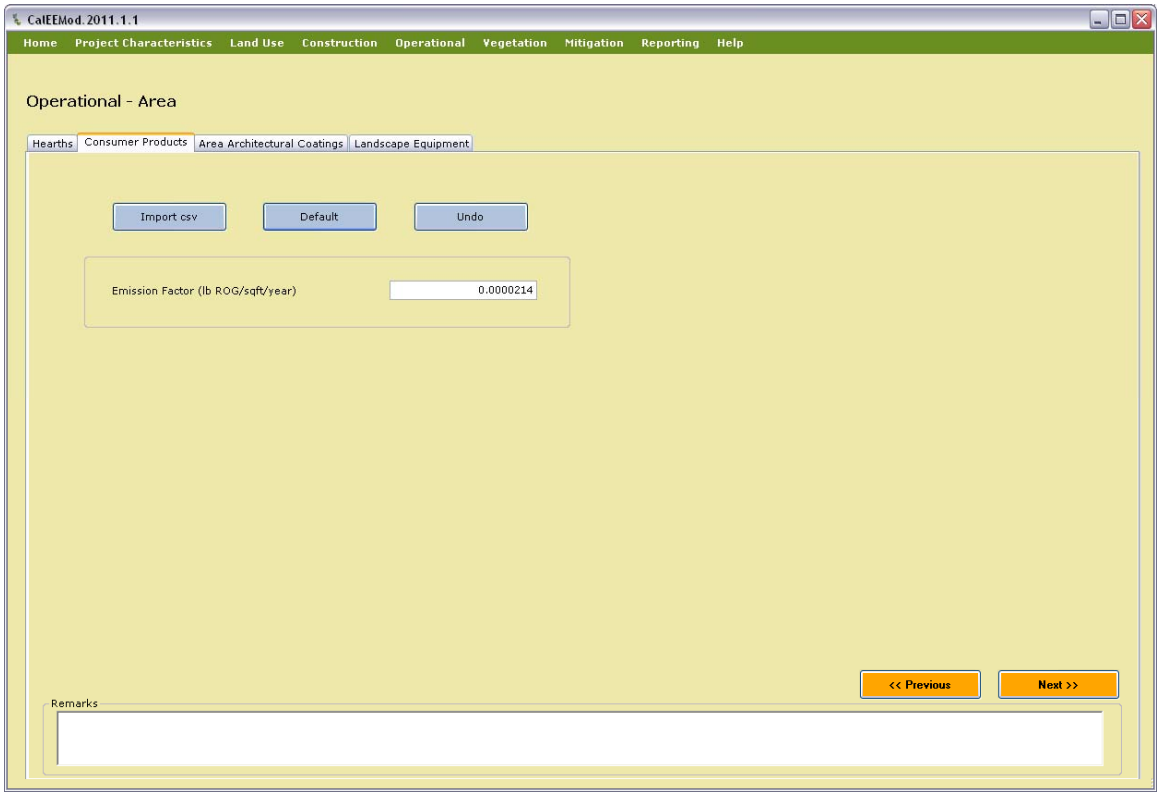

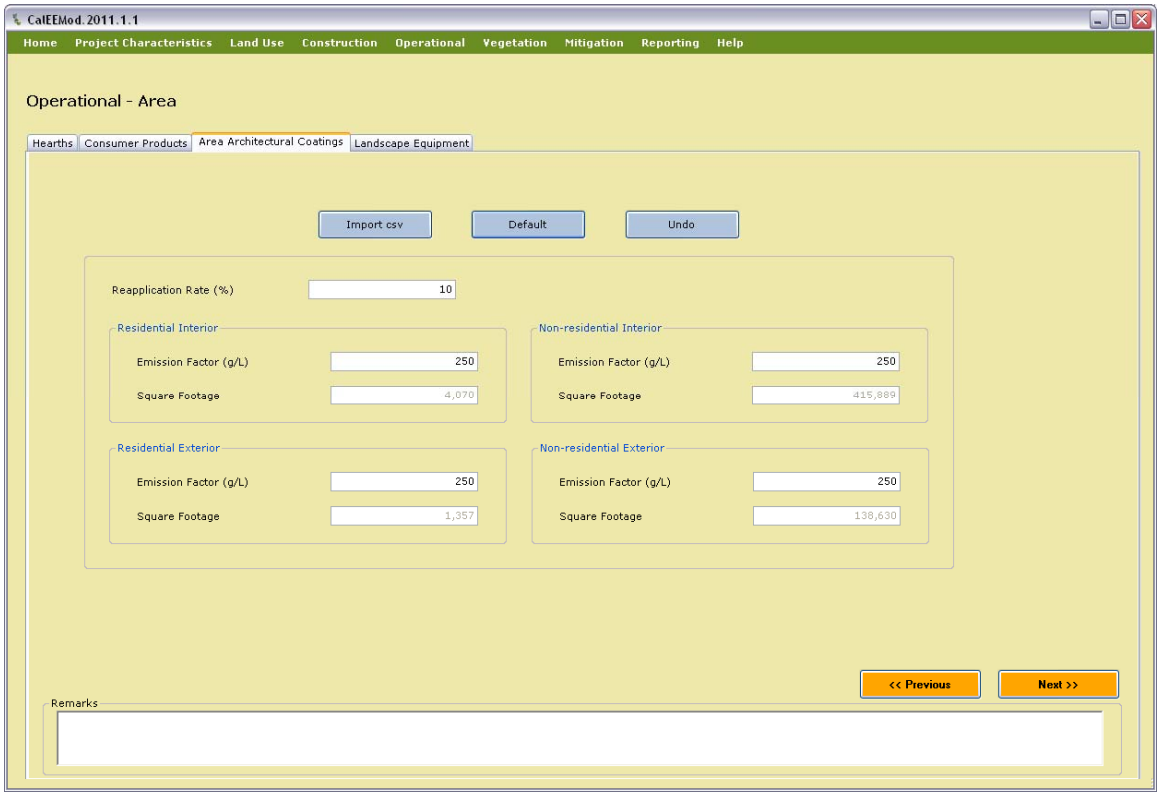

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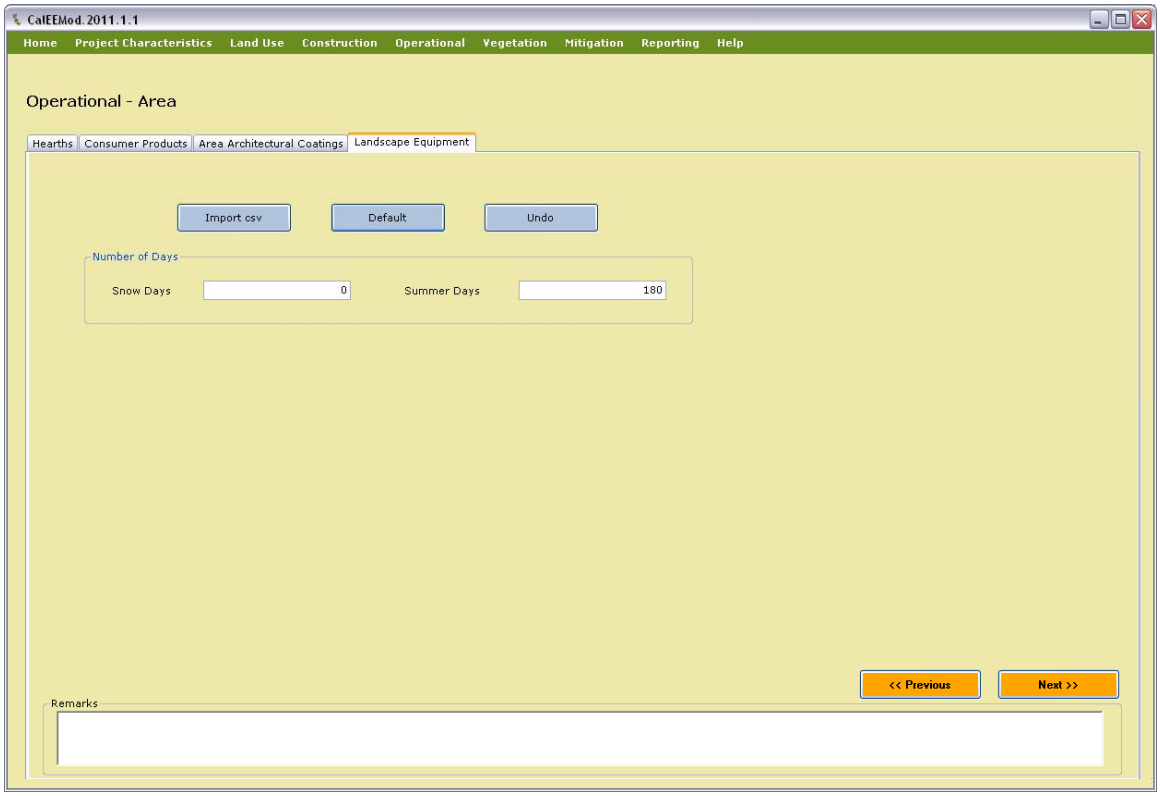

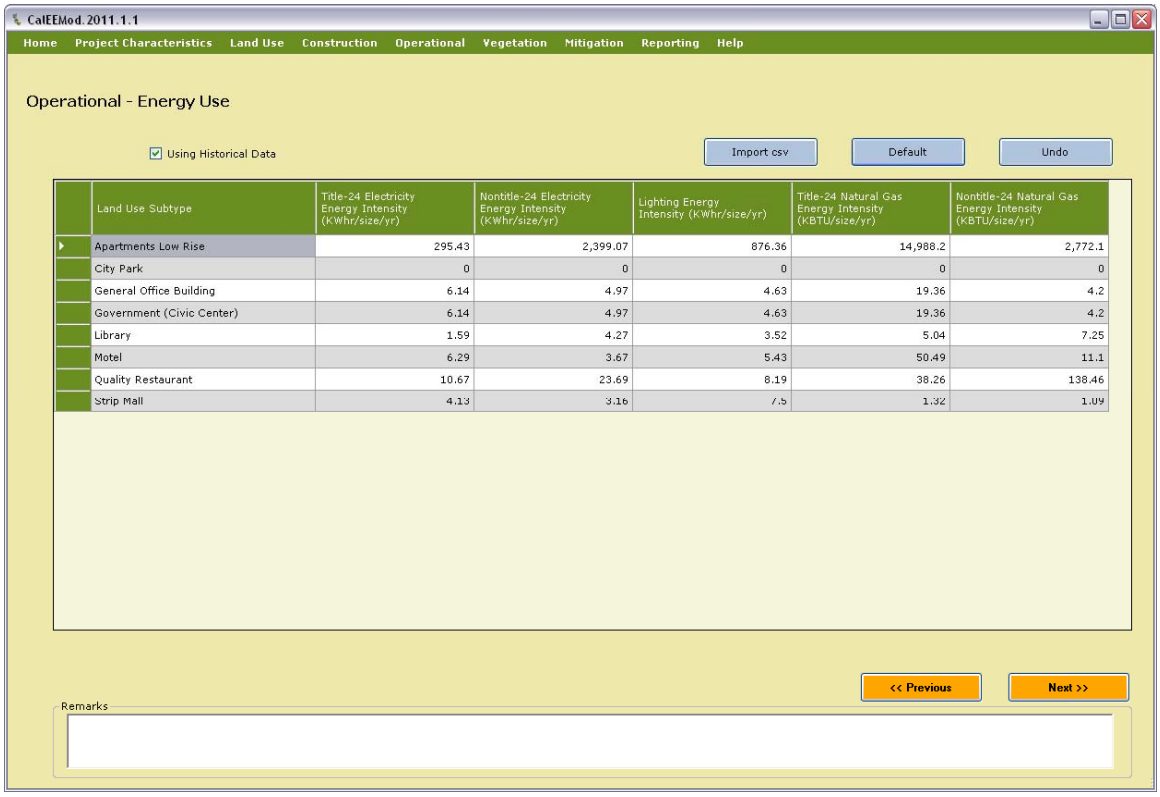

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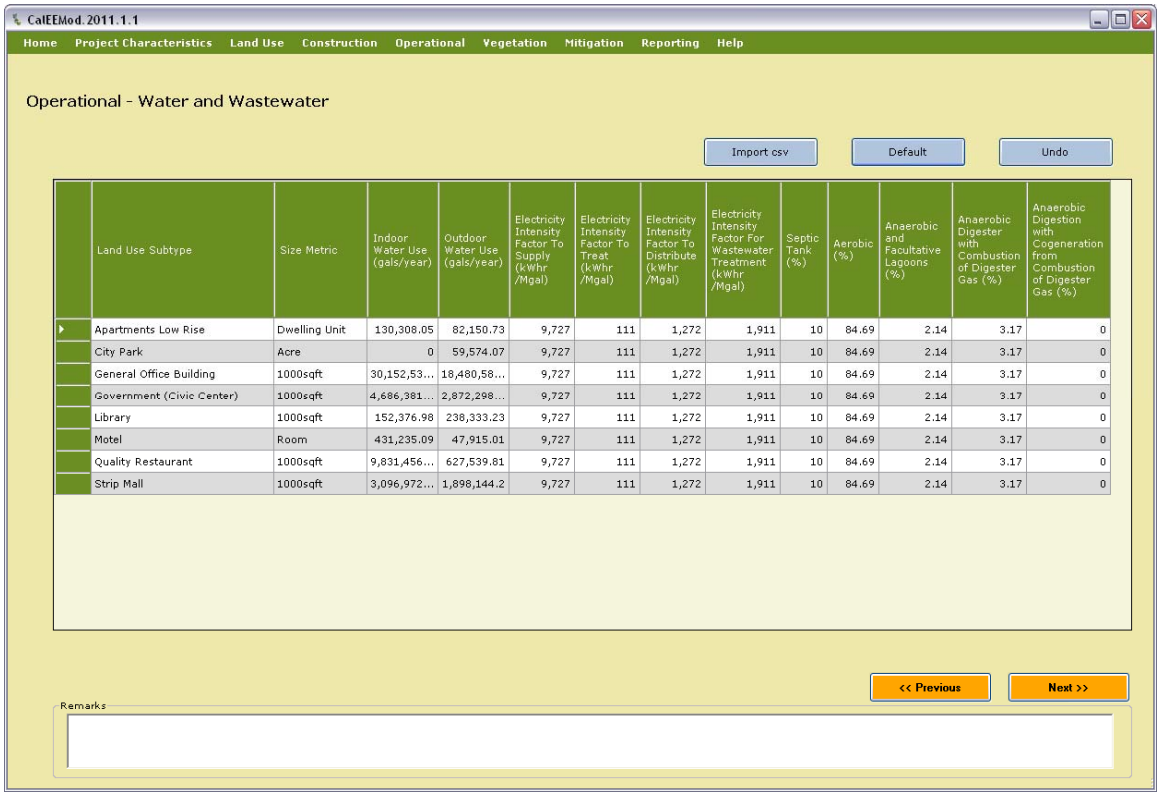


CalEEMod.2011.1.1

Home | Project Characteristics | Land Use | Construction | Operational | Vegetation | Mitigation | Reporting | Help

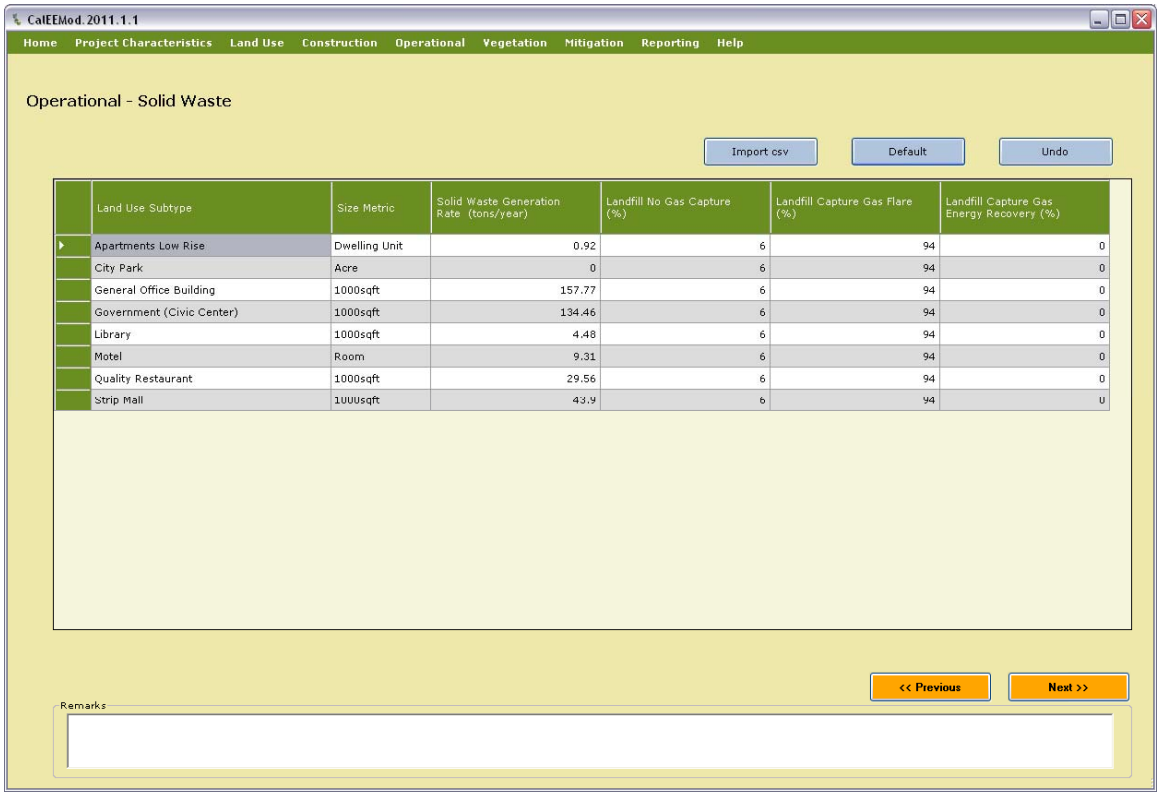
Operational - Water and Wastewater

Import csv | Default | Undo

	Land Use Subtype	Size Metric	Indoor Water Use (gals/year)	Outdoor Water Use (gals/year)	Electricity Intensity Factor To Supply (kWhr /Mgal)	Electricity Intensity Factor To Treat (kWhr /Mgal)	Electricity Intensity Factor To Distribute (kWhr /Mgal)	Electricity Intensity Factor For Wastewater Treatment (kWhr /Mgal)	Septic Tank (%)	Aerobic (%)	Anaerobic and Facultative Lagoons (%)	Anaerobic Digester with Combustion of Digester Gas (%)	Anaerobic Digestion with Cogeneration from Combustion of Digester Gas (%)
▶	Apartments Low Rise	Dwelling Unit	130,308.05	82,150.73	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	City Park	Acre	0	59,574.07	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	General Office Building	1000sqft	30,152,53...	18,480,58...	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	Government (Civic Center)	1000sqft	4,686,381...	2,872,298...	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	Library	1000sqft	152,376.98	238,333.23	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	Motel	Room	431,235.09	47,915.01	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	Quality Restaurant	1000sqft	9,831,456...	627,539.81	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	Strip Mall	1000sqft	3,096,972...	1,898,144.2	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0

<< Previous | Next >>

Remarks



CalEEMod.2011.1.1

Home | Project Characteristics | Land Use | Construction | Operational | Vegetation | Mitigation | Reporting | Help

Operational - Solid Waste

Import csv | Default | Undo

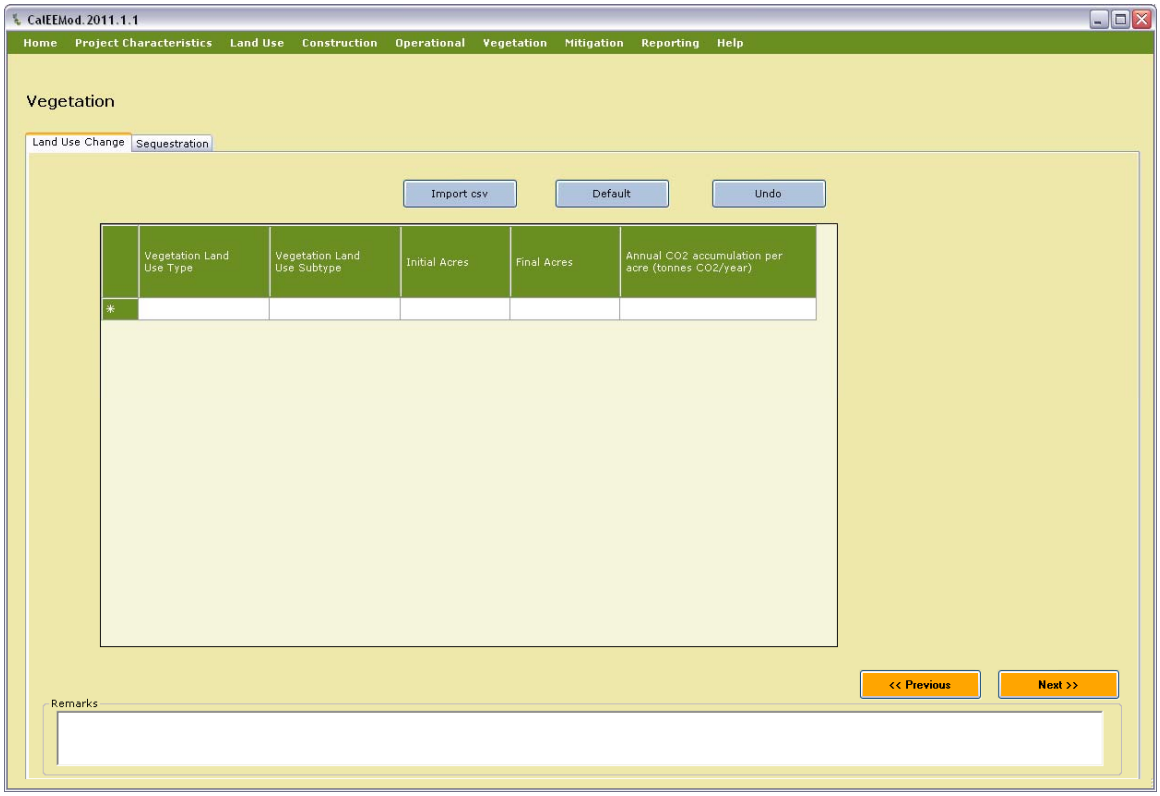
	Land Use Subtype	Size Metric	Solid Waste Generation Rate (tons/year)	Landfill No Gas Capture (%)	Landfill Capture Gas Flare (%)	Landfill Capture Gas Energy Recovery (%)
▶	Apartments Low Rise	Dwelling Unit	0.92	6	94	0
	City Park	Acre	0	6	94	0
	General Office Building	1000sqft	157.77	6	94	0
	Government (Civic Center)	1000sqft	134.46	6	94	0
	Library	1000sqft	4.48	6	94	0
	Motel	Room	9.31	6	94	0
	Quality Restaurant	1000sqft	29.56	6	94	0
	Strip Mall	1000sqft	43.9	6	94	0

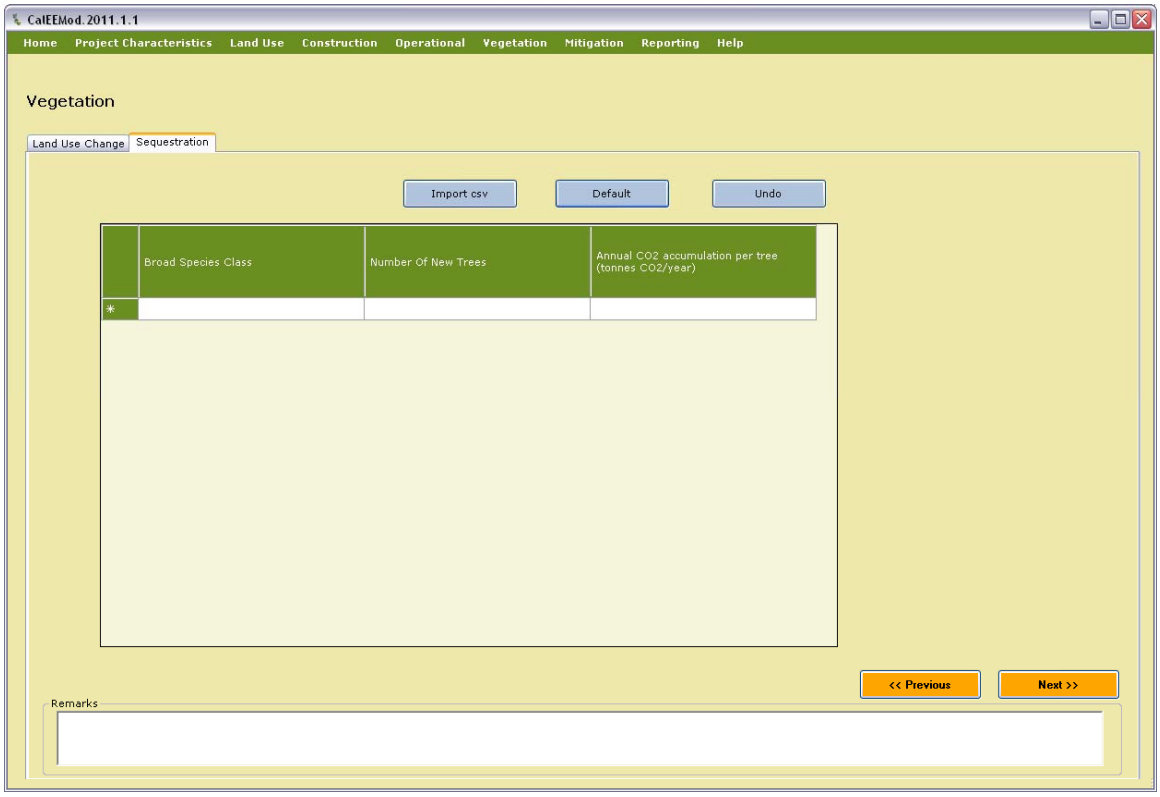
<< Previous | Next >>

Remarks

CalEEMod Input

2011 Existing Use





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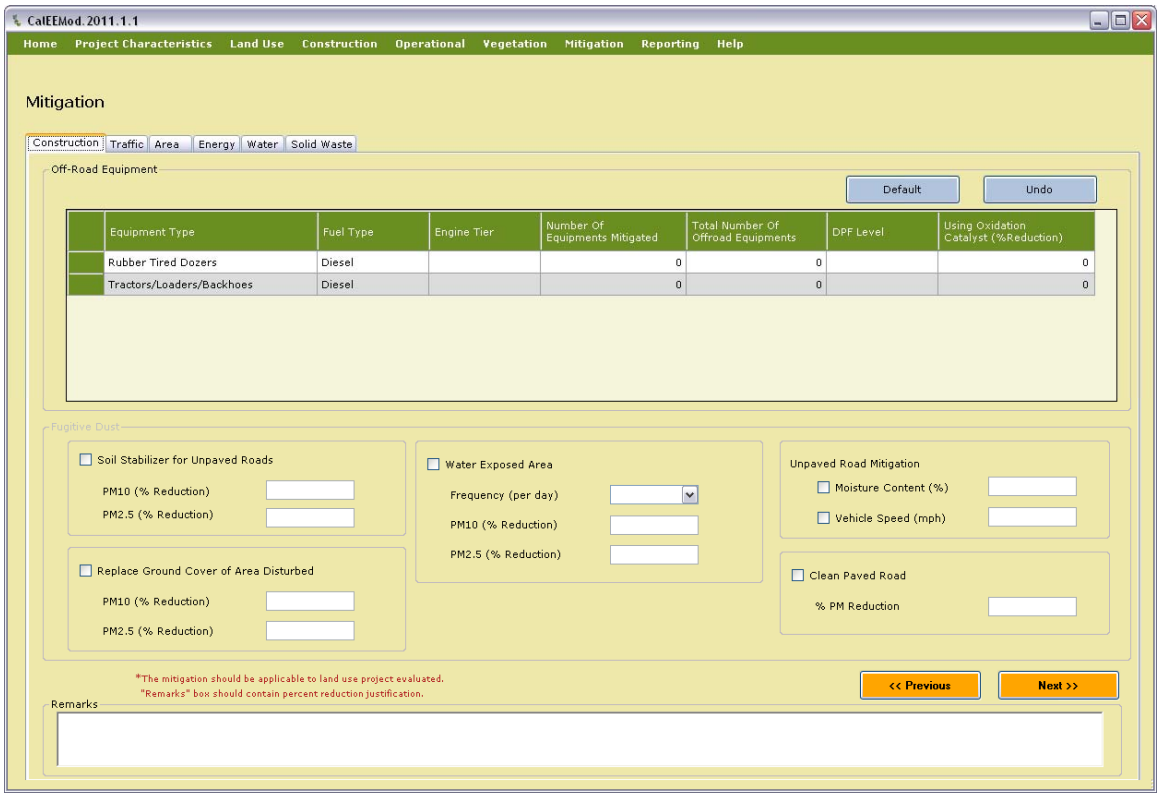

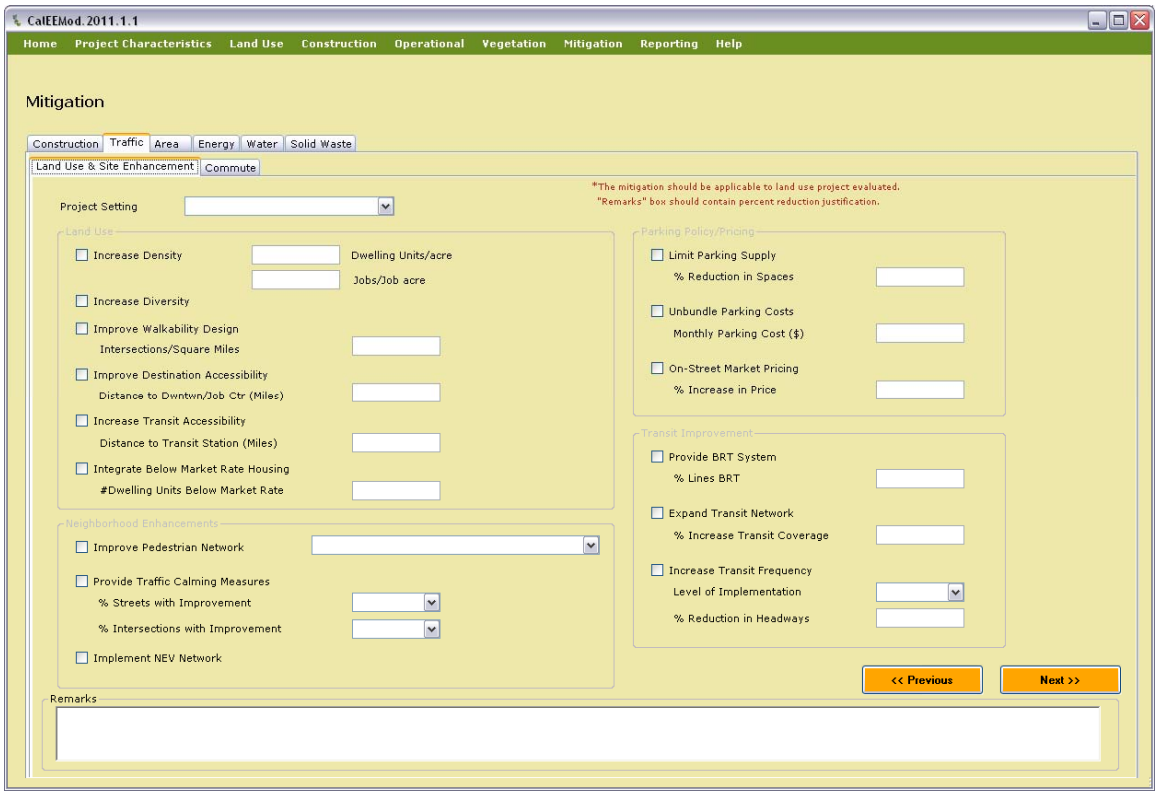

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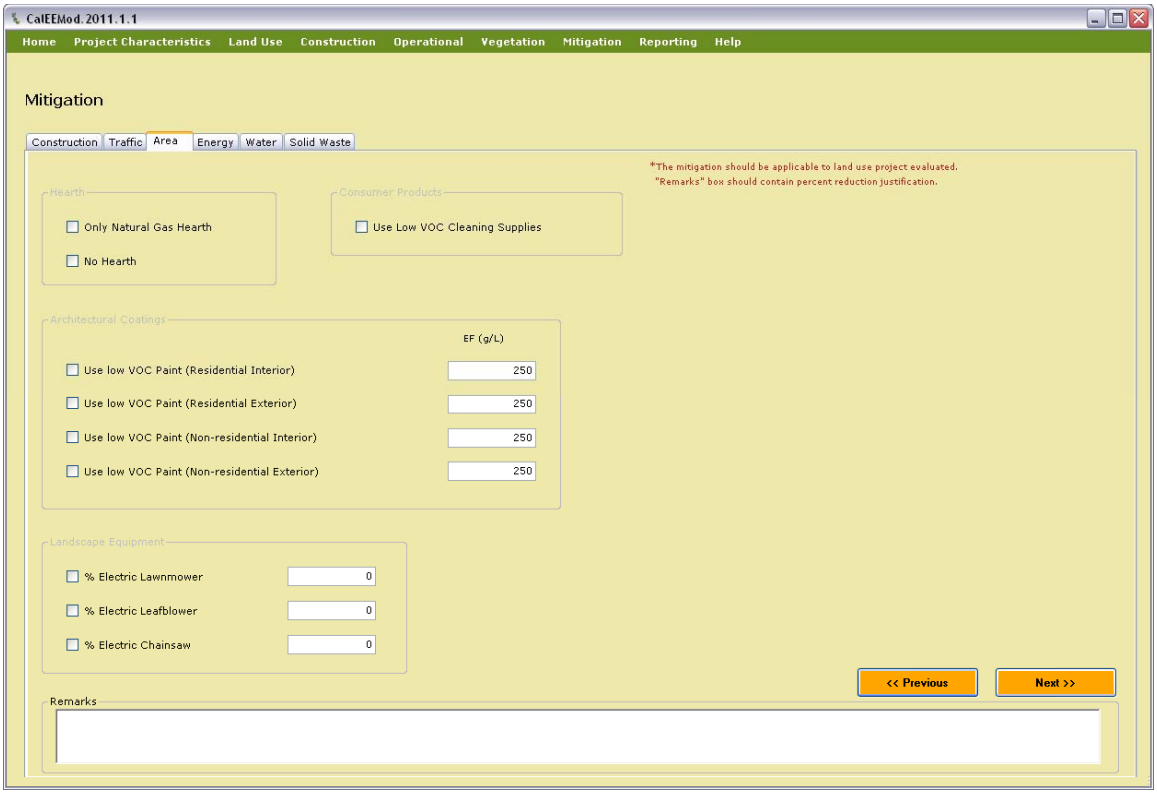

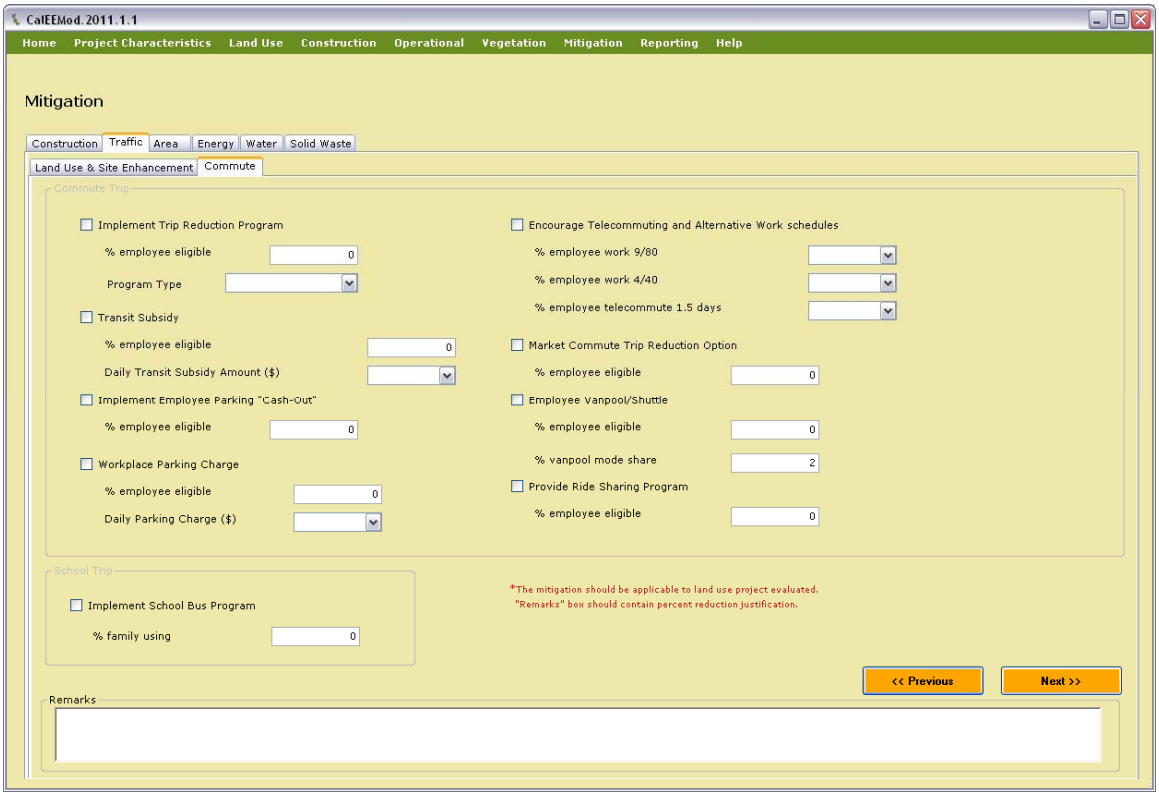

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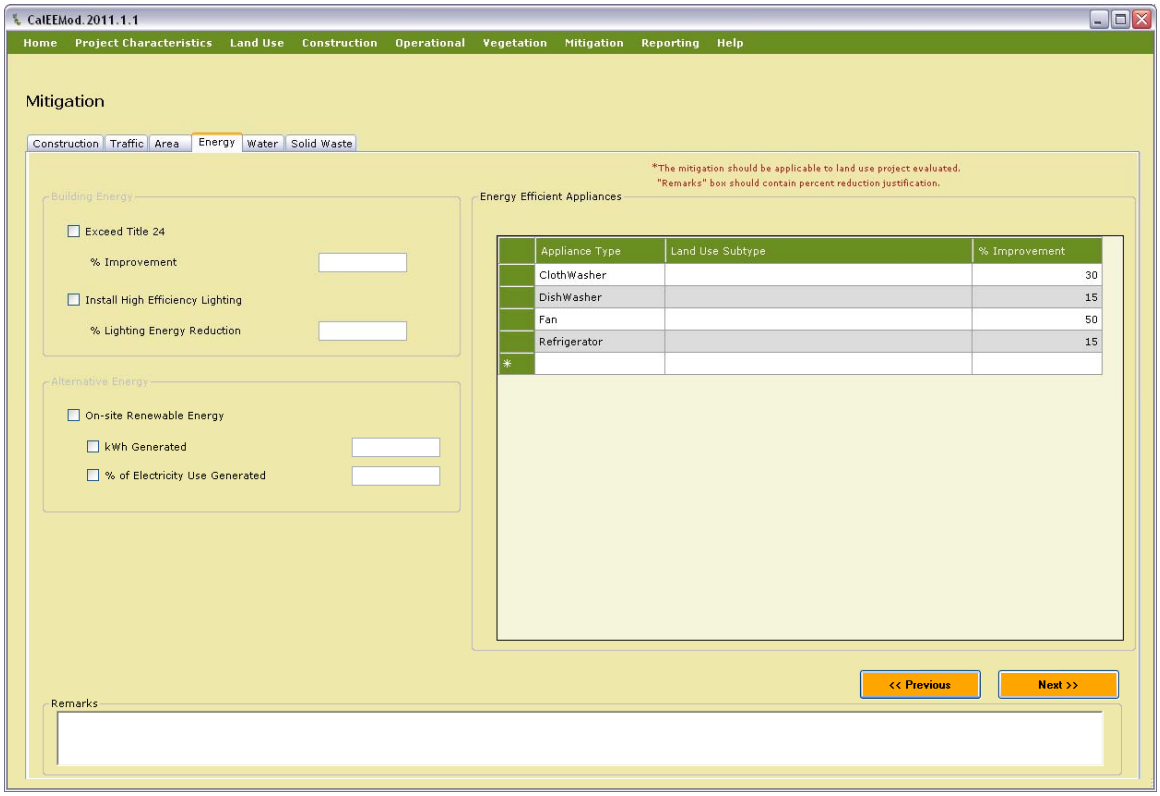

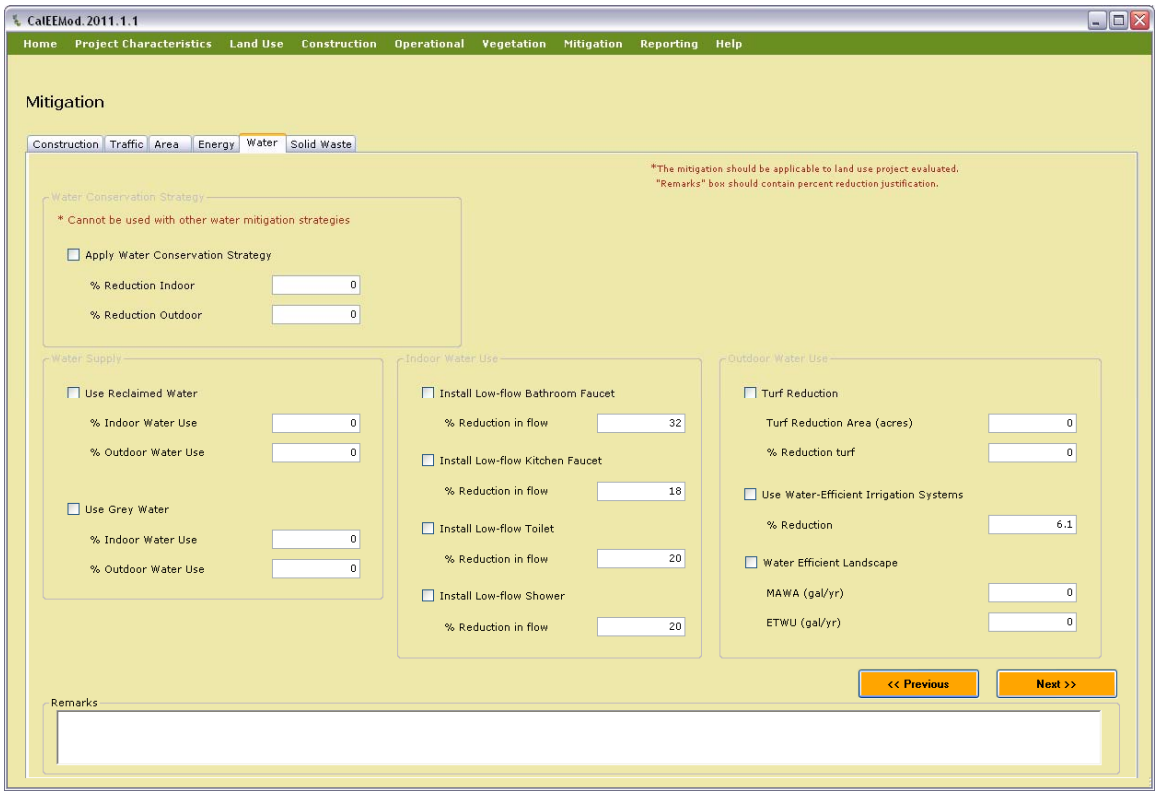

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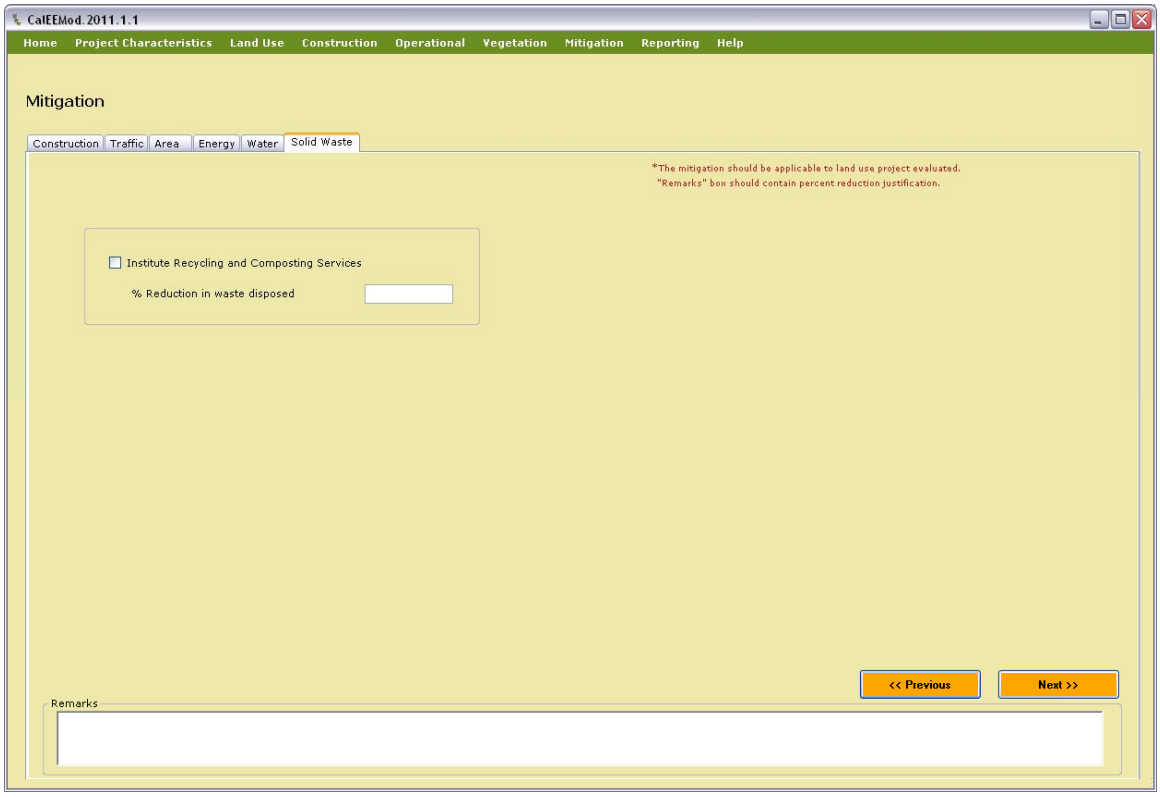


CalEEMod Output, Existing Use—Summer

6447: Del Mar Village Specific Plan Existing Uses (2011)

San Diego County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Motel	17	Room
Government (Civic Center)	23.59	1000sqft
Library	4.87	1000sqft
Apartments Low Rise	2	Dwelling Unit
General Office Building	169.65	1000sqft
Quality Restaurant	32.39	1000sqft
Strip Mall	41.81	1000sqft
City Park	0.05	Acre

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	San Diego Gas & Electric
Climate Zone	13		2.6		
		Precipitation Freq (Days)			

1.3 User Entered Comments

40

Project Characteristics -

Land Use - Based on land use information provided by the City of Del Mar.

Construction Phase - No construction ocurring.

Off-road Equipment - No construction ocurring.

Vehicle Trips - Trip rates based on KOA Traffic Impact Study
Trip length adjusted to SANDAG's regional average trip length of 5.8 miles

Area Coating -

Energy Use -

2.0 Emissions Summary

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	8.81	0.02	1.73	0.00		0.00	0.23		0.00	0.23	25.76	23.59		0.05	0.00	50.98
Energy	0.32	2.89	2.43	0.02		0.00	0.22		0.00	0.22		3,473.91		0.07	0.06	3,495.05
Mobile	48.30	87.63	429.92	0.45	46.56	2.88	49.43	0.65	2.55	3.20		46,671.92		2.96		46,734.16
Total	**57.43**	**90.54**	**434.08**	**0.47**	**46.56**	**2.88**	**49.88**	**0.65**	**2.55**	**3.65**	**25.76**	**50,169.42**		**3.08**	**0.06**	**50,280.19**

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	8.81	0.02	1.73	0.00		0.00	0.23		0.00	0.23	25.76	23.59		0.05	0.00	50.98
Energy	0.32	2.89	2.43	0.02		0.00	0.22		0.00	0.22		3,473.91		0.07	0.06	3,495.05
Mobile	48.30	87.63	429.92	0.45	46.56	2.88	49.43	0.65	2.55	3.20		46,671.92		2.96		46,734.16
Total	**57.43**	**90.54**	**434.08**	**0.47**	**46.56**	**2.88**	**49.88**	**0.65**	**2.55**	**3.65**	**25.76**	**50,169.42**		**3.08**	**0.06**	**50,280.19**

3.0 Construction Detail

3.1 Mitigation Measures Construction

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	48.30	87.63	429.92	0.45	46.56	2.88	49.43	0.65	2.55	3.20		46,671.92		2.96		46,734.16
Unmitigated	48.30	87.63	429.92	0.45	46.56	2.88	49.43	0.65	2.55	3.20		46,671.92		2.96		46,734.16
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	16.00	14.32	12.14	28,513	28,513
City Park	0.08	0.08	0.08	123	123
General Office Building	3,393.00	69.56	23.75	4,209,410	4,209,410
Government (Civic Center)	707.70	0.00	0.00	627,263	627,263
Library	243.50	226.70	124.14	242,475	242,475
Motel	153.00	178.50	142.80	221,375	221,375
Quality Restaurant	5,182.40	3,056.32	2337.26	4,084,377	4,084,377
Strip Mall	1,672.40	1,757.69	854.18	1,828,905	1,828,905
Total	11,368.08	5,303.17	3,494.35	11,242,440	11,242,440

4.3 Trip Type Information

	Miles			Trip %		
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
Apartments Low Rise	5.80	5.80	5.80	41.60	18.80	39.60
City Park	5.80	5.80	5.80	33.00	48.00	19.00
General Office Building	5.80	5.80	5.80	33.00	48.00	19.00
Government (Civic Center)	5.80	5.80	5.80	75.00	20.00	5.00
Library	5.00	5.80	5.80	52.00	43.00	5.00
Motel	5.80	5.80	5.80	19.00	62.00	19.00
Quality Restaurant	5.80	5.80	5.80	12.00	69.00	19.00
Strip Mall	5.80	5.80	5.80	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.32	2.89	2.43	0.02		0.00	0.22		0.00	0.22		3,473.91		0.07	0.06	3,495.05
NaturalGas Unmitigated	0.32	2.89	2.43	0.02		0.00	0.22		0.00	0.22		3,473.91		0.07	0.06	3,495.05
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	lb/day										lb/day					
Apartments Low Rise	97.3167	0.00	0.01	0.00	0.00		0.00	0.00		0.00	0.00		11.45		0.00	0.00	11.52
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
General Office Building	10950.3	0.12	1.07	0.90	0.01		0.00	0.08		0.00	0.08		1,288.27		0.02	0.02	1,296.11
Government (Civic Center)	1522.82	0.02	0.15	0.13	0.00		0.00	0.01		0.00	0.01		179.15		0.00	0.00	180.25
Library	164.114	0.00	0.02	0.01	0.00		0.00	0.00		0.00	0.00		19.31		0.00	0.00	19.42
Motel	833.574	0.01	0.08	0.07	0.00		0.00	0.01		0.00	0.01		98.07		0.00	0.00	98.66
Quality Restaurant	15684	0.17	1.54	1.29	0.01		0.00	0.12		0.00	0.12		1,845.18		0.04	0.03	1,856.41
Strip Mall	276.067	0.00	0.03	0.02	0.00		0.00	0.00		0.00	0.00		32.48		0.00	0.00	32.68
Total		**0.32**	**2.90**	**2.42**	**0.02**		**0.00**	**0.22**		**0.00**	**0.22**		**3,473.91**		**0.06**	**0.05**	**3,495.05**

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	lb/day										lb/day					
Apartments Low Rise	0.0973167	0.00	0.01	0.00	0.00		0.00	0.00		0.00	0.00		11.45		0.00	0.00	11.52
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
General Office Building	10.9503	0.12	1.07	0.90	0.01		0.00	0.08		0.00	0.08		1,288.27		0.02	0.02	1,296.11
Government (Civic Center)	1.52282	0.02	0.15	0.13	0.00		0.00	0.01		0.00	0.01		179.15		0.00	0.00	180.25
Library	0.164114	0.00	0.02	0.01	0.00		0.00	0.00		0.00	0.00		19.31		0.00	0.00	19.42
Motel	0.833574	0.01	0.08	0.07	0.00		0.00	0.01		0.00	0.01		98.07		0.00	0.00	98.66
Quality Restaurant	15.684	0.17	1.54	1.29	0.01		0.00	0.12		0.00	0.12		1,845.18		0.04	0.03	1,856.41
Strip Mall	0.276067	0.00	0.03	0.02	0.00		0.00	0.00		0.00	0.00		32.48		0.00	0.00	32.68
Total		**0.32**	**2.90**	**2.42**	**0.02**		**0.00**	**0.22**		**0.00**	**0.22**		**3,473.91**		**0.06**	**0.05**	**3,495.05**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.81	0.02	1.73	0.00		0.00	0.23		0.00	0.23	25.76	23.59		0.05	0.00	50.98
Unmitigated	8.81	0.02	1.73	0.00		0.00	0.23		0.00	0.23	25.76	23.59		0.05	0.00	50.98
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	1.78					0.00	0.00		0.00	0.00						0.00
Consumer Products	5.98					0.00	0.00		0.00	0.00						0.00
Hearth	1.05	0.02	1.56	0.00		0.00	0.23		0.00	0.23	25.76	23.29		0.05	0.00	50.67
Landscaping	0.01	0.00	0.18	0.00		0.00	0.00		0.00	0.00		0.30		0.00		0.31
Total	**8.82**	**0.02**	**1.74**	**0.00**		**0.00**	**0.23**		**0.00**	**0.23**	**25.76**	**23.59**		**0.05**	**0.00**	**50.98**

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	1.78					0.00	0.00		0.00	0.00						0.00
Consumer Products	5.98					0.00	0.00		0.00	0.00						0.00
Hearth	1.05	0.02	1.56	0.00		0.00	0.23		0.00	0.23	25.76	23.29		0.05	0.00	50.67
Landscaping	0.01	0.00	0.18	0.00		0.00	0.00		0.00	0.00		0.30		0.00		0.31
Total	**8.82**	**0.02**	**1.74**	**0.00**		**0.00**	**0.23**		**0.00**	**0.23**	**25.76**	**23.59**		**0.05**	**0.00**	**50.98**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

CalEEMod Output, Existing Use—Winter

6447: Del Mar Village Specific Plan Existing Uses (2011)

San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Motel	17	Room
Government (Civic Center)	23.59	1000sqft
Library	4.87	1000sqft
Apartments Low Rise	2	Dwelling Unit
General Office Building	169.65	1000sqft
Quality Restaurant	32.39	1000sqft
Strip Mall	41.81	1000sqft
City Park	0.05	Acre

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	San Diego Gas & Electric
Climate Zone	13		2.6		
		Precipitation Freq (Days)			

1.3 User Entered Comments

40

Project Characteristics -

Land Use - Based on land use information provided by the City of Del Mar.

Construction Phase - No construction ocurring.

Off-road Equipment - No construction ocurring.

Vehicle Trips - Trip rates based on KOA Traffic Impact Study

Area Coating -

Energy Use -

2.0 Emissions Summary

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	8.81	0.02	1.73	0.00		0.00	0.23		0.00	0.23	25.76	23.59		0.05	0.00	50.98
Energy	0.32	2.89	2.43	0.02		0.00	0.22		0.00	0.22		3,473.91		0.07	0.06	3,495.05
Mobile	51.14	91.80	448.89	0.42	46.56	2.94	49.49	0.65	2.60	3.25		43,708.83		3.08		43,773.56
Total	**60.27**	**94.71**	**453.05**	**0.44**	**46.56**	**2.94**	**49.94**	**0.65**	**2.60**	**3.70**	**25.76**	**47,206.33**		**3.20**	**0.06**	**47,319.59**

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	8.81	0.02	1.73	0.00		0.00	0.23		0.00	0.23	25.76	23.59		0.05	0.00	50.98
Energy	0.32	2.89	2.43	0.02		0.00	0.22		0.00	0.22		3,473.91		0.07	0.06	3,495.05
Mobile	51.14	91.80	448.89	0.42	46.56	2.94	49.49	0.65	2.60	3.25		43,708.83		3.08		43,773.56
Total	**60.27**	**94.71**	**453.05**	**0.44**	**46.56**	**2.94**	**49.94**	**0.65**	**2.60**	**3.70**	**25.76**	**47,206.33**		**3.20**	**0.06**	**47,319.59**

3.0 Construction Detail

3.1 Mitigation Measures Construction

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	51.14	91.80	448.89	0.42	46.56	2.94	49.49	0.65	2.60	3.25		43,708.83		3.08		43,773.56
Unmitigated	51.14	91.80	448.89	0.42	46.56	2.94	49.49	0.65	2.60	3.25		43,708.83		3.08		43,773.56
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	16.00	14.32	12.14	28,513	28,513
City Park	0.08	0.08	0.08	123	123
General Office Building	3,393.00	69.56	23.75	4,209,410	4,209,410
Government (Civic Center)	707.70	0.00	0.00	627,263	627,263
Library	243.50	226.70	124.14	242,475	242,475
Motel	153.00	178.50	142.80	221,375	221,375
Quality Restaurant	5,182.40	3,056.32	2337.26	4,084,377	4,084,377
Strip Mall	1,672.40	1,757.69	854.18	1,828,905	1,828,905
Total	11,368.08	5,303.17	3,494.35	11,242,440	11,242,440

4.3 Trip Type Information

	Miles			Trip %		
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
Apartments Low Rise	5.80	5.80	5.80	41.60	18.80	39.60
City Park	5.80	5.80	5.80	33.00	48.00	19.00
General Office Building	5.80	5.80	5.80	33.00	48.00	19.00
Government (Civic Center)	5.80	5.80	5.80	75.00	20.00	5.00
Library	5.00	5.80	5.80	52.00	43.00	5.00
Motel	5.80	5.80	5.80	19.00	62.00	19.00
Quality Restaurant	5.80	5.80	5.80	12.00	69.00	19.00
Strip Mall	5.80	5.80	5.80	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.32	2.89	2.43	0.02		0.00	0.22		0.00	0.22		3,473.91		0.07	0.06	3,495.05
NaturalGas Unmitigated	0.32	2.89	2.43	0.02		0.00	0.22		0.00	0.22		3,473.91		0.07	0.06	3,495.05
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	lb/day										lb/day					
Apartments Low Rise	97.3167	0.00	0.01	0.00	0.00		0.00	0.00		0.00	0.00		11.45		0.00	0.00	11.52
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
General Office Building	10950.3	0.12	1.07	0.90	0.01		0.00	0.08		0.00	0.08		1,288.27		0.02	0.02	1,296.11
Government (Civic Center)	1522.82	0.02	0.15	0.13	0.00		0.00	0.01		0.00	0.01		179.15		0.00	0.00	180.25
Library	164.114	0.00	0.02	0.01	0.00		0.00	0.00		0.00	0.00		19.31		0.00	0.00	19.42
Motel	833.574	0.01	0.08	0.07	0.00		0.00	0.01		0.00	0.01		98.07		0.00	0.00	98.66
Quality Restaurant	15684	0.17	1.54	1.29	0.01		0.00	0.12		0.00	0.12		1,845.18		0.04	0.03	1,856.41
Strip Mall	276.067	0.00	0.03	0.02	0.00		0.00	0.00		0.00	0.00		32.48		0.00	0.00	32.68
Total		**0.32**	**2.90**	**2.42**	**0.02**		**0.00**	**0.22**		**0.00**	**0.22**		**3,473.91**		**0.06**	**0.05**	**3,495.05**

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	lb/day										lb/day					
Apartments Low Rise	0.0973167	0.00	0.01	0.00	0.00		0.00	0.00		0.00	0.00		11.45		0.00	0.00	11.52
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
General Office Building	10.9503	0.12	1.07	0.90	0.01		0.00	0.08		0.00	0.08		1,288.27		0.02	0.02	1,296.11
Government (Civic Center)	1.52282	0.02	0.15	0.13	0.00		0.00	0.01		0.00	0.01		179.15		0.00	0.00	180.25
Library	0.164114	0.00	0.02	0.01	0.00		0.00	0.00		0.00	0.00		19.31		0.00	0.00	19.42
Motel	0.833574	0.01	0.08	0.07	0.00		0.00	0.01		0.00	0.01		98.07		0.00	0.00	98.66
Quality Restaurant	15.684	0.17	1.54	1.29	0.01		0.00	0.12		0.00	0.12		1,845.18		0.04	0.03	1,856.41
Strip Mall	0.276067	0.00	0.03	0.02	0.00		0.00	0.00		0.00	0.00		32.48		0.00	0.00	32.68
Total		**0.32**	**2.90**	**2.42**	**0.02**		**0.00**	**0.22**		**0.00**	**0.22**		**3,473.91**		**0.06**	**0.05**	**3,495.05**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.81	0.02	1.73	0.00		0.00	0.23		0.00	0.23	25.76	23.59		0.05	0.00	50.98
Unmitigated	8.81	0.02	1.73	0.00		0.00	0.23		0.00	0.23	25.76	23.59		0.05	0.00	50.98
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	1.78					0.00	0.00		0.00	0.00						0.00
Consumer Products	5.98					0.00	0.00		0.00	0.00						0.00
Hearth	1.05	0.02	1.56	0.00		0.00	0.23		0.00	0.23	25.76	23.29		0.05	0.00	50.67
Landscaping	0.01	0.00	0.18	0.00		0.00	0.00		0.00	0.00		0.30		0.00		0.31
Total	**8.82**	**0.02**	**1.74**	**0.00**		**0.00**	**0.23**		**0.00**	**0.23**	**25.76**	**23.59**		**0.05**	**0.00**	**50.98**

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	1.78					0.00	0.00		0.00	0.00						0.00
Consumer Products	5.98					0.00	0.00		0.00	0.00						0.00
Hearth	1.05	0.02	1.56	0.00		0.00	0.23		0.00	0.23	25.76	23.29		0.05	0.00	50.67
Landscaping	0.01	0.00	0.18	0.00		0.00	0.00		0.00	0.00		0.30		0.00		0.31
Total	**8.82**	**0.02**	**1.74**	**0.00**		**0.00**	**0.23**		**0.00**	**0.23**	**25.76**	**23.59**		**0.05**	**0.00**	**50.98**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

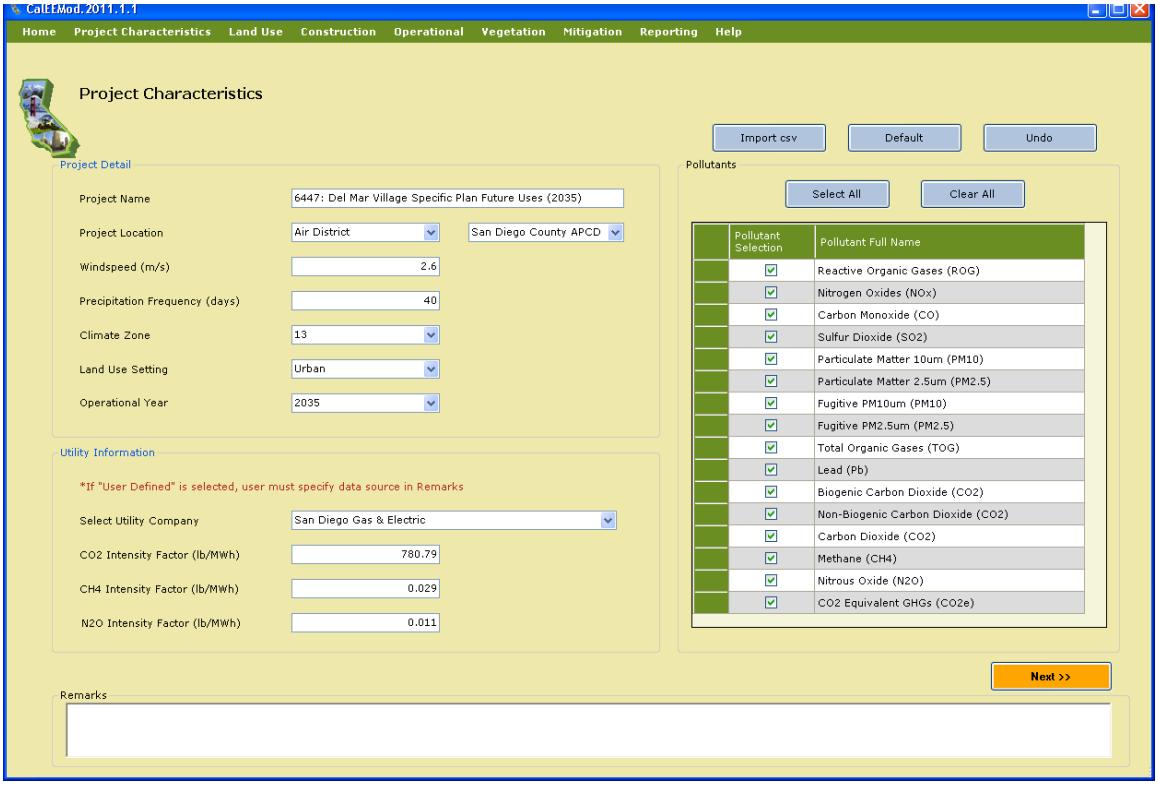
9.0 Vegetation

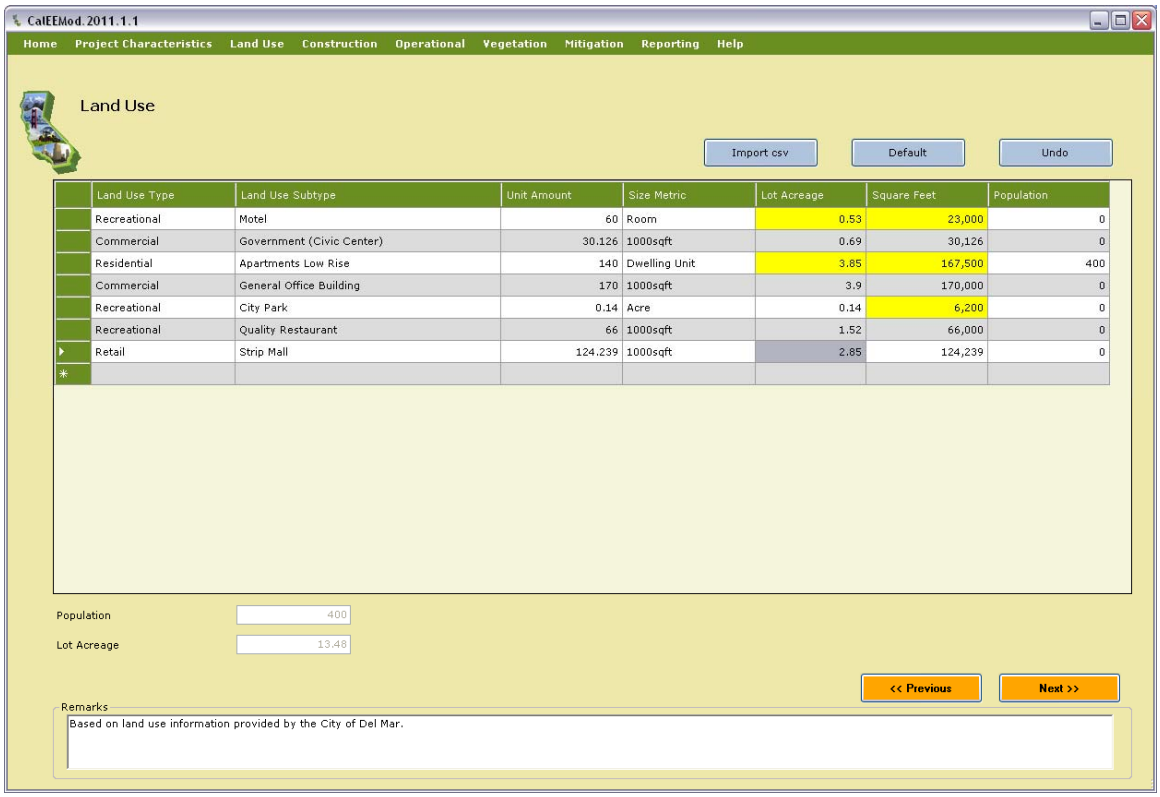
ATTACHMENT 3

CalEEMod Input, 2035 Plan

CalEEMod Input

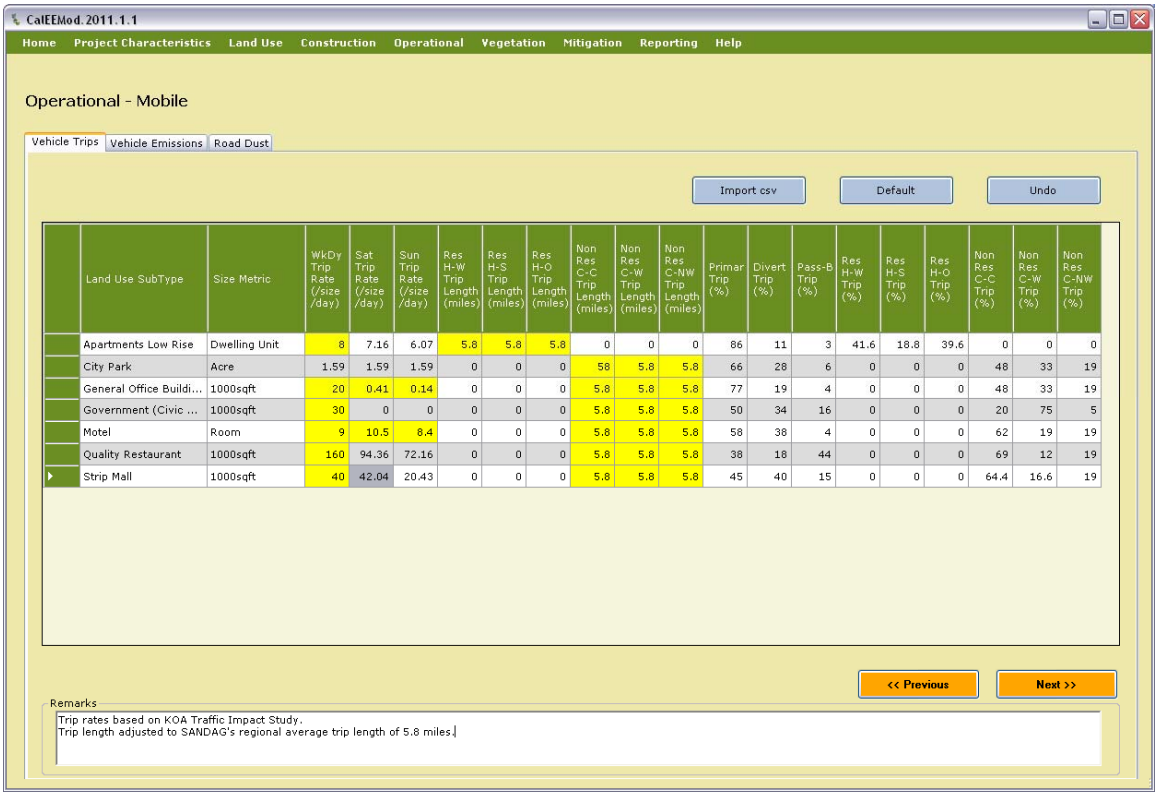
2035 Proposed Plan Uses





CalEEMod Input

2035 Proposed Plan Uses



CalEEMod.2011.1.1

Home | Project Characteristics | Land Use | Construction | Operational | Vegetation | Mitigation | Reporting | Help

Operational - Mobile

Vehicle Trips | Vehicle Emissions | Road Dust

Import csv | Default | Undo

	Land Use SubType	Size Metric	WkDy Trip Rate (/size /day)	Sat Trip Rate (/size /day)	Sun Trip Rate (/size /day)	Res H-W Trip Length (miles)	Res H-S Trip Length (miles)	Res H-O Trip Length (miles)	Non Res C-C Trip Length (miles)	Non Res C-W Trip Length (miles)	Non Res C-NW Trip Length (miles)	Primar Trip (%)	Divert Trip (%)	Pass-B Trip (%)	Res H-W Trip (%)	Res H-S Trip (%)	Res H-O Trip (%)	Non Res C-C Trip (%)	Non Res C-W Trip (%)	Non Res C-NW Trip (%)
	Apartments Low Rise	Dwelling Unit	8	7.16	6.07	5.8	5.8	5.8	0	0	0	86	11	3	41.6	18.8	39.6	0	0	0
	City Park	Acre	1.59	1.59	1.59	0	0	0	58	5.8	5.8	66	28	6	0	0	0	48	33	19
	General Office Buildi...	1000sqft	20	0.41	0.14	0	0	0	5.8	5.8	5.8	77	19	4	0	0	0	48	33	19
	Government (Civic ...	1000sqft	30	0	0	0	0	0	5.8	5.8	5.8	50	34	16	0	0	0	20	75	5
	Motel	Room	9	10.5	8.4	0	0	0	5.8	5.8	5.8	58	38	4	0	0	0	62	19	19
	Quality Restaurant	1000sqft	160	94.36	72.16	0	0	0	5.8	5.8	5.8	38	18	44	0	0	0	69	12	19
▶	Strip Mall	1000sqft	40	42.04	20.43	0	0	0	5.8	5.8	5.8	45	40	15	0	0	0	64.4	16.6	19

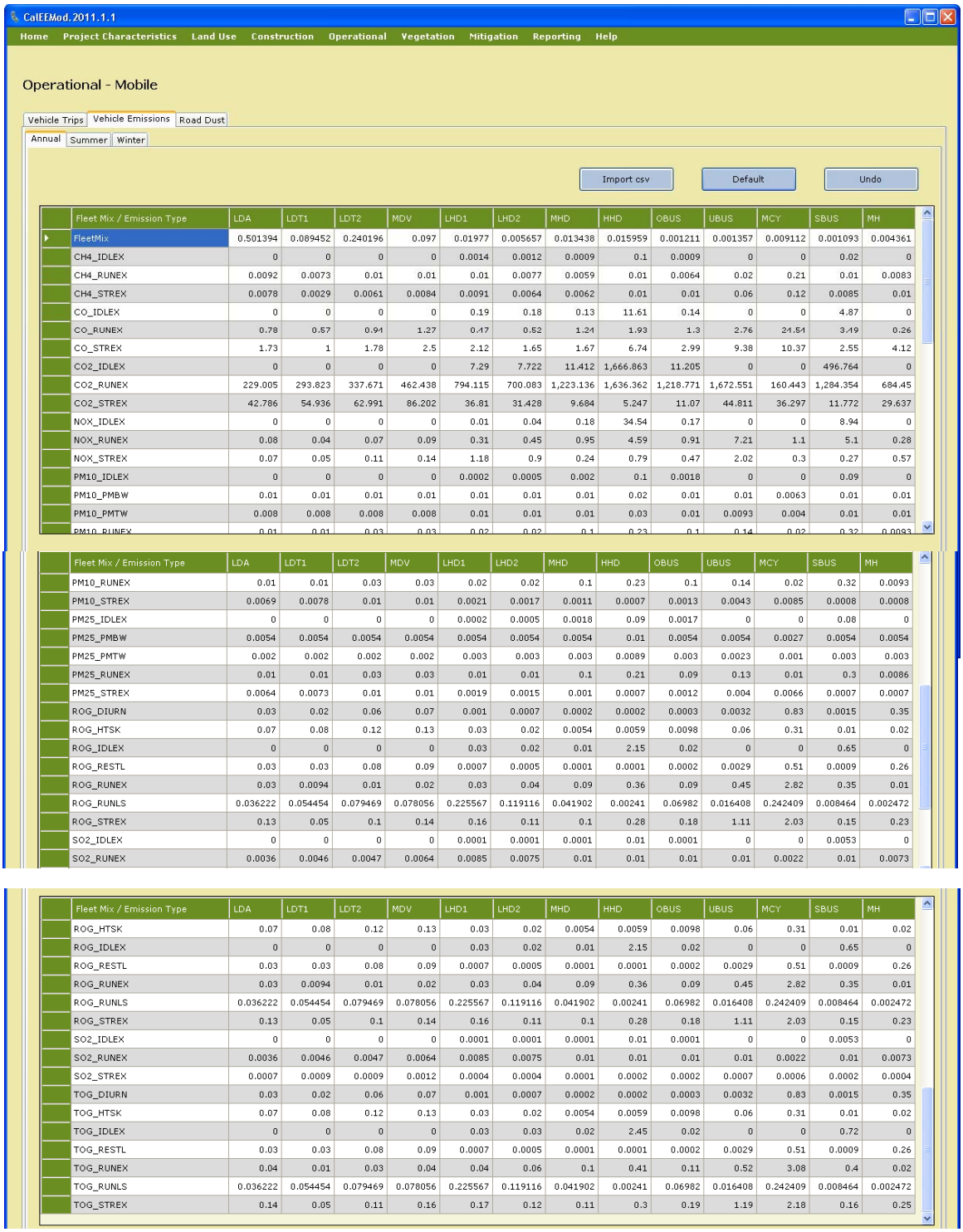
<< Previous | Next >>

Remarks

Trip rates based on KOA Traffic Impact Study.
Trip length adjusted to SANDAG's regional average trip length of 5.8 miles.

CalEEMod Input

2035 Proposed Plan Uses



Fleet Mix / Emission Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
FleetMix	0.501394	0.089452	0.240196	0.097	0.01977	0.005657	0.013438	0.015959	0.001211	0.001357	0.009112	0.001093	0.004361
CH4_IDLEX	0	0	0	0	0.0014	0.0012	0.0009	0.1	0.0009	0	0	0.02	0
CH4_RUNEX	0.0092	0.0073	0.01	0.01	0.01	0.0077	0.0059	0.01	0.0064	0.02	0.21	0.01	0.0083
CH4_STREX	0.0078	0.0029	0.0061	0.0084	0.0091	0.0064	0.0062	0.01	0.01	0.06	0.12	0.0085	0.01
CO_IDLEX	0	0	0	0	0.19	0.18	0.13	11.61	0.14	0	0	4.87	0
CO_RUNEX	0.78	0.57	0.91	1.27	0.47	0.52	1.24	1.93	1.3	2.76	24.54	3.49	0.26
CO_STREX	1.73	1	1.78	2.5	2.12	1.65	1.67	6.74	2.99	9.38	10.37	2.55	4.12
CO2_IDLEX	0	0	0	0	7.29	7.722	11.412	1,666.863	11.205	0	0	496.764	0
CO2_RUNEX	229.005	293.823	337.671	462.438	794.115	700.083	1,223.136	1,636.362	1,218.771	1,672.551	160.443	1,284.354	684.45
CO2_STREX	42.786	54.936	62.991	86.202	36.81	31.428	9.684	5.247	11.07	44.811	36.297	11.772	29.637
NOX_IDLEX	0	0	0	0	0.01	0.04	0.18	34.54	0.17	0	0	8.94	0
NOX_RUNEX	0.08	0.04	0.07	0.09	0.31	0.45	0.95	4.59	0.91	7.21	1.1	5.1	0.28
NOX_STREX	0.07	0.05	0.11	0.14	1.18	0.9	0.24	0.79	0.47	2.02	0.3	0.27	0.57
PM10_IDLEX	0	0	0	0	0.0002	0.0005	0.002	0.1	0.0018	0	0	0.09	0
PM10_PMBW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.0063	0.01	0.01
PM10_PMTW	0.008	0.008	0.008	0.008	0.01	0.01	0.01	0.03	0.01	0.0093	0.004	0.01	0.01
PM10_RUNEX	0.01	0.01	0.03	0.03	0.02	0.02	0.1	0.23	0.1	0.14	0.02	0.32	0.0093
PM10_STREX	0.0069	0.0078	0.01	0.01	0.0021	0.0017	0.0011	0.0007	0.0013	0.0043	0.0085	0.0008	0.0008
PM25_IDLEX	0	0	0	0	0.0002	0.0005	0.0018	0.09	0.0017	0	0	0.08	0
PM25_PMBW	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.01	0.0054	0.0054	0.0027	0.0054	0.0054
PM25_PMTW	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.0089	0.003	0.0023	0.001	0.003	0.003
PM25_RUNEX	0.01	0.01	0.03	0.03	0.01	0.01	0.1	0.21	0.09	0.13	0.01	0.3	0.0086
PM25_STREX	0.0064	0.0073	0.01	0.01	0.0019	0.0015	0.001	0.0007	0.0012	0.004	0.0066	0.0007	0.0007
ROG_DIURN	0.03	0.02	0.06	0.07	0.001	0.0007	0.0002	0.0002	0.0003	0.0032	0.83	0.0015	0.35
ROG_HTSK	0.07	0.08	0.12	0.13	0.03	0.02	0.0054	0.0059	0.0098	0.06	0.31	0.01	0.02
ROG_IDLEX	0	0	0	0	0.03	0.02	0.01	2.15	0.02	0	0	0.65	0
ROG_RESTL	0.03	0.03	0.08	0.09	0.0007	0.0005	0.0001	0.0001	0.0002	0.0029	0.51	0.0009	0.26
ROG_RUNEX	0.03	0.0094	0.01	0.02	0.03	0.04	0.09	0.36	0.09	0.45	2.82	0.35	0.01
ROG_RUNLS	0.036222	0.054454	0.079469	0.078056	0.225567	0.119116	0.041902	0.00241	0.06982	0.016408	0.242409	0.008464	0.002472
ROG_STREX	0.13	0.05	0.1	0.14	0.16	0.11	0.1	0.28	0.18	1.11	2.03	0.15	0.23
SO2_IDLEX	0	0	0	0	0.0001	0.0001	0.0001	0.01	0.0001	0	0	0.0053	0
SO2_RUNEX	0.0036	0.0046	0.0047	0.0064	0.0085	0.0075	0.01	0.01	0.01	0.01	0.0022	0.01	0.0073
SO2_STREX	0.0007	0.0009	0.0009	0.0012	0.0004	0.0004	0.0001	0.0002	0.0002	0.0007	0.0006	0.0002	0.0004
TOG_DIURN	0.03	0.02	0.06	0.07	0.001	0.0007	0.0002	0.0002	0.0003	0.0032	0.83	0.0015	0.35
TOG_HTSK	0.07	0.08	0.12	0.13	0.03	0.02	0.0054	0.0059	0.0098	0.06	0.31	0.01	0.02
TOG_IDLEX	0	0	0	0	0.03	0.03	0.02	2.45	0.02	0	0	0.72	0
TOG_RESTL	0.03	0.03	0.08	0.09	0.0007	0.0005	0.0001	0.0001	0.0002	0.0029	0.51	0.0009	0.26
TOG_RUNEX	0.04	0.01	0.03	0.04	0.04	0.06	0.1	0.41	0.11	0.52	3.08	0.4	0.02
TOG_RUNLS	0.036222	0.054454	0.079469	0.078056	0.225567	0.119116	0.041902	0.00241	0.06982	0.016408	0.242409	0.008464	0.002472
TOG_STREX	0.14	0.05	0.11	0.16	0.17	0.12	0.11	0.3	0.19	1.19	2.18	0.16	0.25

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Fleet Mix / Emission Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
FleetMix	0.501394	0.089452	0.240196	0.097	0.01977	0.005657	0.013438	0.015959	0.001211	0.001357	0.009112	0.001093	0.004361
CH4_IDLEX	0	0	0	0	0.0014	0.0012	0.0009	0.09	0.0009	0	0	0.02	0
CH4_RUNEX	0.0097	0.0079	0.01	0.01	0.01	0.0078	0.006	0.01	0.0065	0.02	0.21	0.01	0.0085
CH4_STREX	0.0065	0.0024	0.0051	0.007	0.008	0.0056	0.0055	0.01	0.0092	0.05	0.1	0.0078	0.01
CO_IDLEX	0	0	0	0	0.19	0.18	0.13	8.44	0.14	0	0	4.87	0
CO_RUNEX	0.87	0.64	1.06	1.42	0.48	0.52	1.24	1.94	1.31	2.8	23.71	3.51	0.26
CO_STREX	1.31	0.75	1.35	1.9	1.67	1.31	1.35	5.44	2.41	7.94	8.96	2.18	3.33
CO2_IDLEX	0	0	0	0	7.29	7.722	11.412	1,761.858	11.205	0	0	496.764	0
CO2_RUNEX	244.827	313.434	360.234	493.254	794.115	700.083	1,223.136	1,636.362	1,218.771	1,672.551	160.443	1,284.354	684.45
CO2_STREX	42.786	54.936	62.991	86.202	36.81	31.428	9.684	5.247	11.07	44.811	36.297	11.772	29.637
NOX_IDLEX	0	0	0	0	0.01	0.04	0.18	35.76	0.17	0	0	8.94	0
NOX_RUNEX	0.08	0.04	0.07	0.09	0.32	0.46	0.98	4.75	0.94	7.46	1.12	5.27	0.29
NOX_STREX	0.07	0.04	0.1	0.13	1.14	0.86	0.23	0.75	0.45	1.93	0.29	0.26	0.55
PM10_IDLEX	0	0	0	0	0.0002	0.0005	0.002	0.08	0.0018	0	0	0.09	0
PM10_PMBW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.0063	0.01	0.01
PM10_PMTW	0.008	0.008	0.008	0.008	0.01	0.01	0.01	0.03	0.01	0.0093	0.004	0.01	0.01

Fleet Mix / Emission Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
PM10_RUNEX	0.01	0.01	0.03	0.03	0.02	0.02	0.1	0.23	0.1	0.14	0.02	0.32	0.0093
PM10_STREX	0.0069	0.0078	0.01	0.01	0.0021	0.0017	0.0011	0.0007	0.0013	0.0043	0.0085	0.0008	0.0008
PM25_IDLEX	0	0	0	0	0.0002	0.0005	0.0018	0.07	0.0017	0	0	0.08	0
PM25_PMBW	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.01	0.0054	0.0054	0.0027	0.0054	0.0054
PM25_PMTW	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.0089	0.003	0.0023	0.001	0.003	0.003
PM25_RUNEX	0.01	0.01	0.03	0.03	0.01	0.01	0.1	0.21	0.09	0.13	0.01	0.3	0.0086
PM25_STREX	0.0064	0.0073	0.01	0.01	0.0019	0.0015	0.001	0.0007	0.0012	0.004	0.0066	0.0007	0.0007
ROG_DIURN	0.04	0.04	0.1	0.1	0.0015	0.0011	0.0003	0.0003	0.0005	0.0048	1.41	0.0023	0.55
ROG_HTSK	0.08	0.09	0.13	0.13	0.03	0.02	0.0055	0.006	0.01	0.06	0.38	0.01	0.02
ROG_IDLEX	0	0	0	0	0.03	0.02	0.01	2.02	0.02	0	0	0.65	0
ROG_RESTL	0.04	0.05	0.12	0.14	0.0011	0.0008	0.0002	0.0002	0.0003	0.0047	1.07	0.0015	0.41
ROG_RUNEX	0.03	0.01	0.01	0.02	0.03	0.04	0.09	0.36	0.09	0.46	2.76	0.36	0.01
ROG_RUNLS	0.033682	0.050511	0.073761	0.072537	0.21634	0.11408	0.040724	0.002382	0.068021	0.014609	0.21992	0.007453	0.002391
ROG_STREX	0.11	0.04	0.08	0.12	0.14	0.09	0.09	0.25	0.16	1.01	1.79	0.13	0.2
SO2_IDLEX	0	0	0	0	0.0001	0.0001	0.0001	0.01	0.0001	0	0	0.0053	0
SO2_RUNEX	0.0039	0.0049	0.005	0.0068	0.0085	0.0075	0.01	0.01	0.01	0.01	0.0022	0.01	0.0073
SO2_STREX	0.0007	0.0009	0.0009	0.0012	0.0004	0.0004	0.0001	0.0001	0.0002	0.0006	0.0006	0.0002	0.0004

Fleet Mix / Emission Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
ROG_HTSK	0.08	0.09	0.13	0.13	0.03	0.02	0.0055	0.006	0.01	0.06	0.38	0.01	0.02
ROG_IDLEX	0	0	0	0	0.03	0.02	0.01	2.02	0.02	0	0	0.65	0
ROG_RESTL	0.04	0.05	0.12	0.14	0.0011	0.0008	0.0002	0.0002	0.0003	0.0047	1.07	0.0015	0.41
ROG_RUNEX	0.03	0.01	0.01	0.02	0.03	0.04	0.09	0.36	0.09	0.46	2.76	0.36	0.01
ROG_RUNLS	0.033682	0.050511	0.073761	0.072537	0.21634	0.11408	0.040724	0.002382	0.068021	0.014609	0.21992	0.007453	0.002391
ROG_STREX	0.11	0.04	0.08	0.12	0.14	0.09	0.09	0.25	0.16	1.01	1.79	0.13	0.2
SO2_IDLEX	0	0	0	0	0.0001	0.0001	0.0001	0.01	0.0001	0	0	0.0053	0
SO2_RUNEX	0.0039	0.0049	0.005	0.0068	0.0085	0.0075	0.01	0.01	0.01	0.01	0.0022	0.01	0.0073
SO2_STREX	0.0007	0.0009	0.0009	0.0012	0.0004	0.0004	0.0001	0.0001	0.0002	0.0006	0.0006	0.0002	0.0004
TOG_DIURN	0.04	0.04	0.1	0.1	0.0015	0.0011	0.0003	0.0003	0.0005	0.0048	1.41	0.0023	0.55
TOG_HTSK	0.08	0.09	0.13	0.13	0.03	0.02	0.0055	0.006	0.01	0.06	0.38	0.01	0.02
TOG_IDLEX	0	0	0	0	0.03	0.03	0.02	2.3	0.02	0	0	0.72	0
TOG_RESTL	0.04	0.05	0.12	0.14	0.0011	0.0008	0.0002	0.0002	0.0003	0.0047	1.07	0.0015	0.41
TOG_RUNEX	0.04	0.01	0.03	0.04	0.05	0.06	0.1	0.41	0.11	0.52	3.02	0.41	0.02
TOG_RUNLS	0.033682	0.050511	0.073761	0.072537	0.21634	0.11408	0.040724	0.002382	0.068021	0.014609	0.21992	0.007453	0.002391
TOG_STREX	0.12	0.04	0.09	0.13	0.15	0.1	0.1	0.27	0.17	1.08	1.91	0.14	0.22

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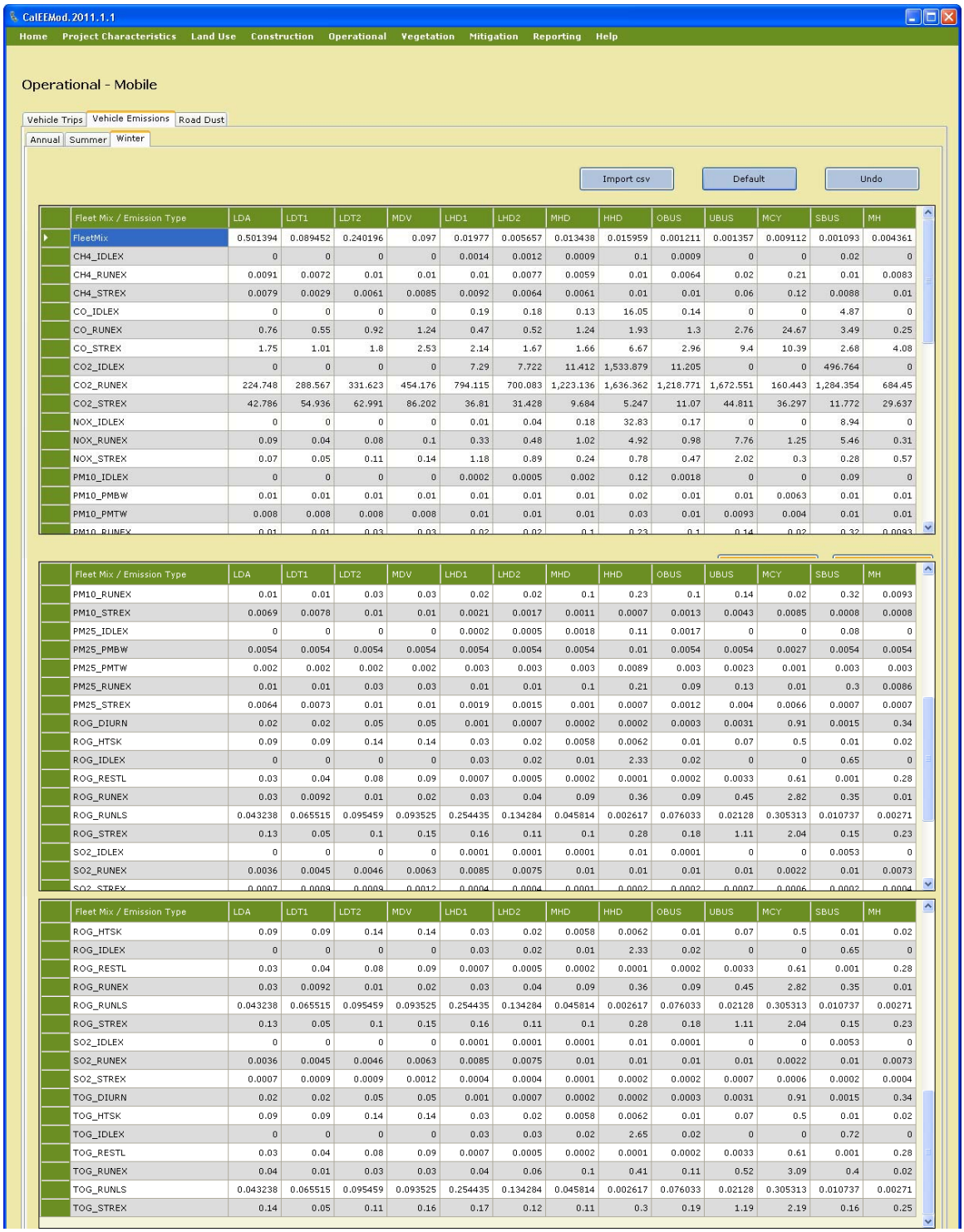

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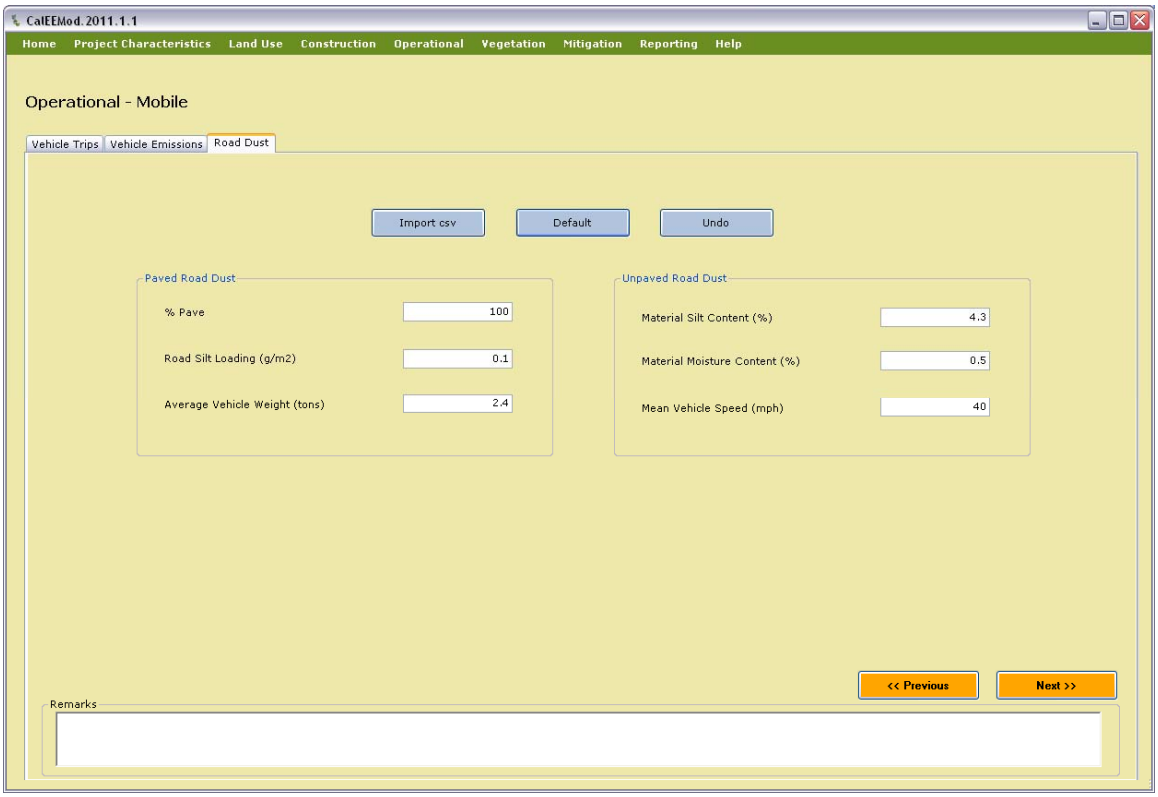
Fleet Mix / Emission Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
FleetMix	0.501394	0.089452	0.240196	0.097	0.01977	0.005657	0.013438	0.015959	0.001211	0.001357	0.009112	0.001093	0.004361
CH4_IDLEX	0	0	0	0	0.0014	0.0012	0.0009	0.1	0.0009	0	0	0.02	0
CH4_RUNEX	0.0091	0.0072	0.01	0.01	0.01	0.0077	0.0059	0.01	0.0064	0.02	0.21	0.01	0.0083
CH4_STREX	0.0079	0.0029	0.0061	0.0085	0.0092	0.0064	0.0061	0.01	0.01	0.06	0.12	0.0088	0.01
CO_IDLEX	0	0	0	0	0.19	0.18	0.13	16.05	0.14	0	0	4.87	0
CO_RUNEX	0.76	0.55	0.92	1.24	0.47	0.52	1.24	1.93	1.3	2.76	24.67	3.49	0.25
CO_STREX	1.75	1.01	1.8	2.53	2.14	1.67	1.66	6.67	2.96	9.4	10.39	2.68	4.08
CO2_IDLEX	0	0	0	0	7.29	7.722	11.412	1,533.879	11.205	0	0	496.764	0
CO2_RUNEX	224.748	288.567	331.623	454.176	794.115	700.083	1,223.136	1,636.362	1,218.771	1,672.551	160.443	1,284.354	684.45
CO2_STREX	42.786	54.936	62.991	86.202	36.81	31.428	9.684	5.247	11.07	44.811	36.297	11.772	29.637
NOX_IDLEX	0	0	0	0	0.01	0.04	0.18	32.83	0.17	0	0	8.94	0
NOX_RUNEX	0.09	0.04	0.08	0.1	0.33	0.48	1.02	4.92	0.98	7.76	1.25	5.46	0.31
NOX_STREX	0.07	0.05	0.11	0.14	1.18	0.89	0.24	0.78	0.47	2.02	0.3	0.28	0.57
PM10_IDLEX	0	0	0	0	0.0002	0.0005	0.002	0.12	0.0018	0	0	0.09	0
PM10_PMBW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.0063	0.01	0.01
PM10_PMTW	0.008	0.008	0.008	0.008	0.01	0.01	0.01	0.03	0.01	0.0093	0.004	0.01	0.01
PM10_RUNEX	0.01	0.01	0.03	0.03	0.02	0.02	0.1	0.23	0.1	0.14	0.02	0.32	0.0093

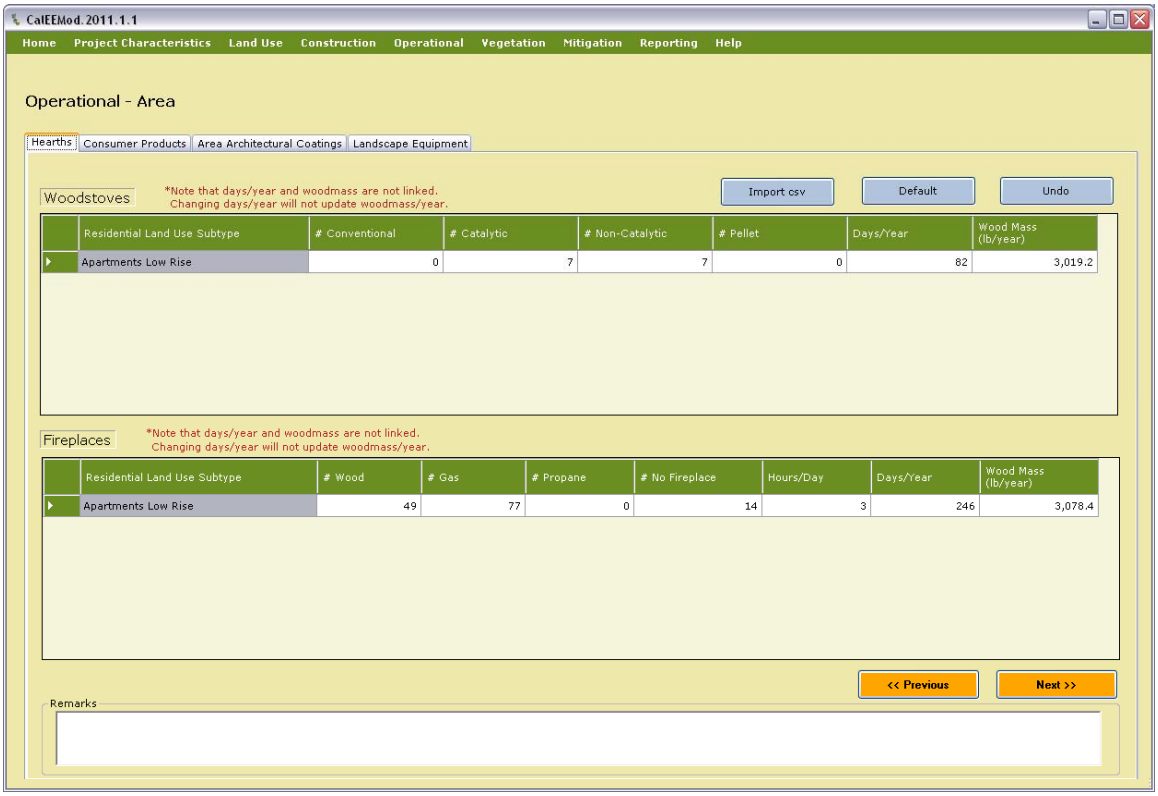
Fleet Mix / Emission Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
PM10_RUNEX	0.01	0.01	0.03	0.03	0.02	0.02	0.1	0.23	0.1	0.14	0.02	0.32	0.0093
PM10_STREX	0.0069	0.0078	0.01	0.01	0.0021	0.0017	0.0011	0.0007	0.0013	0.0043	0.0085	0.0008	0.0008
PM25_IDLEX	0	0	0	0	0.0002	0.0005	0.0018	0.11	0.0017	0	0	0.08	0
PM25_PMBW	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.01	0.0054	0.0054	0.0027	0.0054	0.0054
PM25_PMTW	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.0089	0.003	0.0023	0.001	0.003	0.003
PM25_RUNEX	0.01	0.01	0.03	0.03	0.01	0.01	0.1	0.21	0.09	0.13	0.01	0.3	0.0086
PM25_STREX	0.0064	0.0073	0.01	0.01	0.0019	0.0015	0.001	0.0007	0.0012	0.004	0.0066	0.0007	0.0007
ROG_DIURN	0.02	0.02	0.05	0.05	0.001	0.0007	0.0002	0.0002	0.0003	0.0031	0.91	0.0015	0.34
ROG_HTSK	0.09	0.09	0.14	0.14	0.03	0.02	0.0058	0.0062	0.01	0.07	0.5	0.01	0.02
ROG_IDLEX	0	0	0	0	0.03	0.02	0.01	2.33	0.02	0	0	0.65	0
ROG_RESTL	0.03	0.04	0.08	0.09	0.0007	0.0005	0.0002	0.0001	0.0002	0.0033	0.61	0.001	0.28
ROG_RUNEX	0.03	0.0092	0.01	0.02	0.03	0.04	0.09	0.36	0.09	0.45	2.82	0.35	0.01
ROG_RUNLS	0.043238	0.065515	0.095459	0.093525	0.254435	0.134284	0.045814	0.002617	0.076033	0.02128	0.305313	0.010737	0.00271
ROG_STREX	0.13	0.05	0.1	0.15	0.16	0.11	0.1	0.28	0.18	1.11	2.04	0.15	0.23
SO2_IDLEX	0	0	0	0	0.0001	0.0001	0.0001	0.01	0.0001	0	0	0.0053	0
SO2_RUNEX	0.0036	0.0045	0.0046	0.0063	0.0085	0.0075	0.01	0.01	0.01	0.01	0.0022	0.01	0.0073
SO2_STREX	0.0007	0.0009	0.0009	0.0012	0.0004	0.0004	0.0001	0.0002	0.0002	0.0007	0.0006	0.0002	0.0004

Fleet Mix / Emission Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
ROG_HTSK	0.09	0.09	0.14	0.14	0.03	0.02	0.0058	0.0062	0.01	0.07	0.5	0.01	0.02
ROG_IDLEX	0	0	0	0	0.03	0.02	0.01	2.33	0.02	0	0	0.65	0
ROG_RESTL	0.03	0.04	0.08	0.09	0.0007	0.0005	0.0002	0.0001	0.0002	0.0033	0.61	0.001	0.28
ROG_RUNEX	0.03	0.0092	0.01	0.02	0.03	0.04	0.09	0.36	0.09	0.45	2.82	0.35	0.01
ROG_RUNLS	0.043238	0.065515	0.095459	0.093525	0.254435	0.134284	0.045814	0.002617	0.076033	0.02128	0.305313	0.010737	0.00271
ROG_STREX	0.13	0.05	0.1	0.15	0.16	0.11	0.1	0.28	0.18	1.11	2.04	0.15	0.23
SO2_IDLEX	0	0	0	0	0.0001	0.0001	0.0001	0.01	0.0001	0	0	0.0053	0
SO2_RUNEX	0.0036	0.0045	0.0046	0.0063	0.0085	0.0075	0.01	0.01	0.01	0.01	0.0022	0.01	0.0073
SO2_STREX	0.0007	0.0009	0.0009	0.0012	0.0004	0.0004	0.0001	0.0002	0.0002	0.0007	0.0006	0.0002	0.0004
TOG_DIURN	0.02	0.02	0.05	0.05	0.001	0.0007	0.0002	0.0002	0.0003	0.0031	0.91	0.0015	0.34
TOG_HTSK	0.09	0.09	0.14	0.14	0.03	0.02	0.0058	0.0062	0.01	0.07	0.5	0.01	0.02
TOG_IDLEX	0	0	0	0	0.03	0.03	0.02	2.65	0.02	0	0	0.72	0
TOG_RESTL	0.03	0.04	0.08	0.09	0.0007	0.0005	0.0002	0.0001	0.0002	0.0033	0.61	0.001	0.28
TOG_RUNEX	0.04	0.01	0.03	0.03	0.04	0.06	0.1	0.41	0.11	0.52	3.09	0.4	0.02
TOG_RUNLS	0.043238	0.065515	0.095459	0.093525	0.254435	0.134284	0.045814	0.002617	0.076033	0.02128	0.305313	0.010737	0.00271
TOG_STREX	0.14	0.05	0.11	0.16	0.17	0.12	0.11	0.3	0.19	1.19	2.19	0.16	0.25

CalEEMod Input

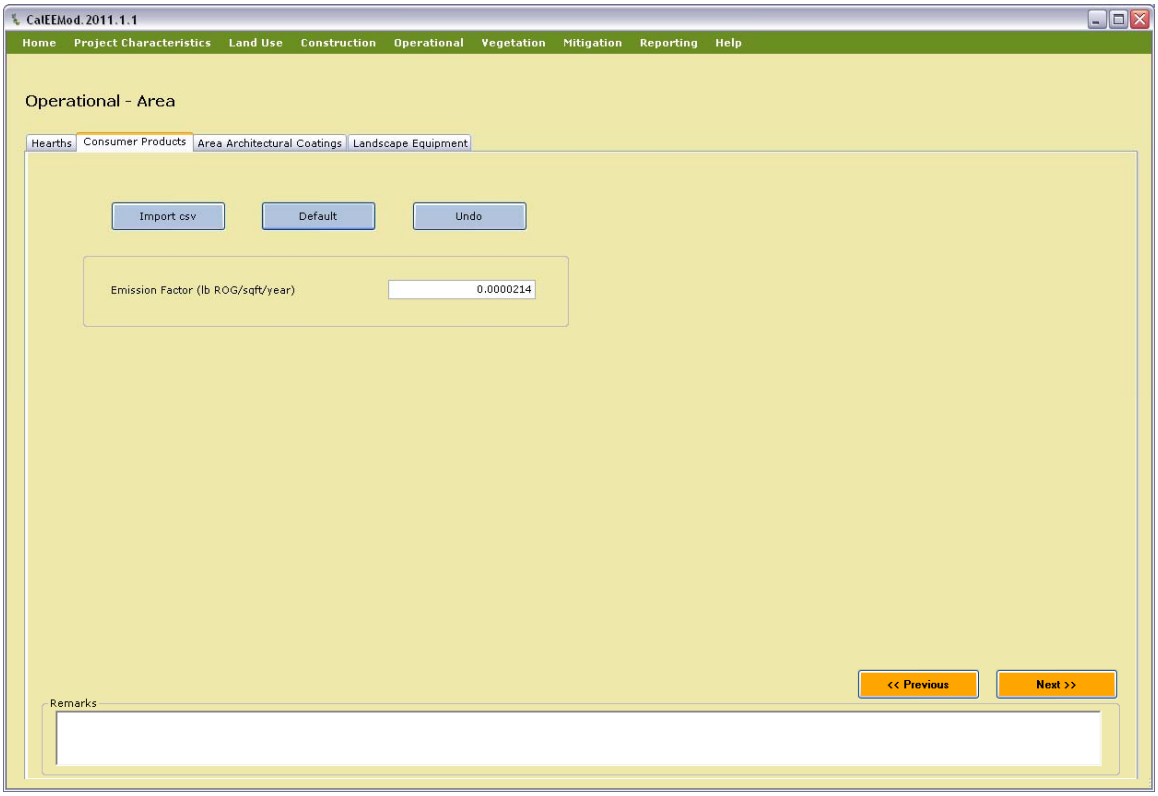
2035 Proposed Plan Uses

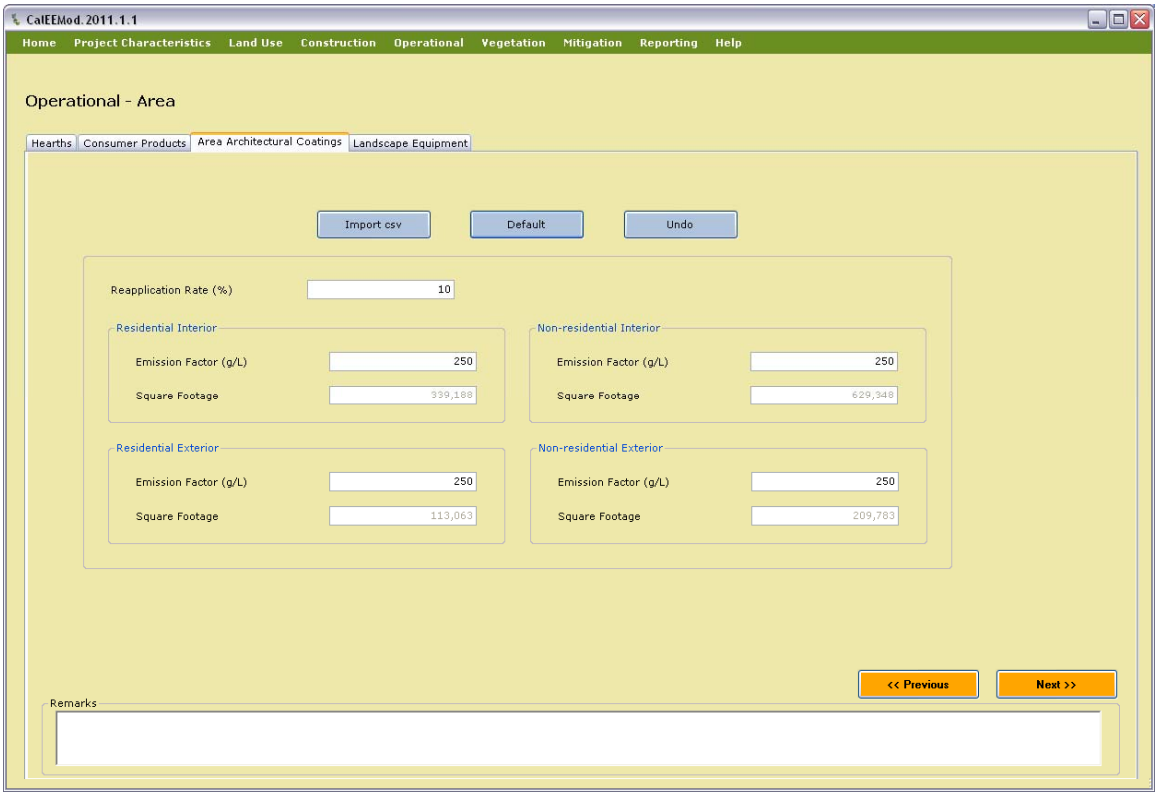




CalEEMod Input

2035 Proposed Plan Uses





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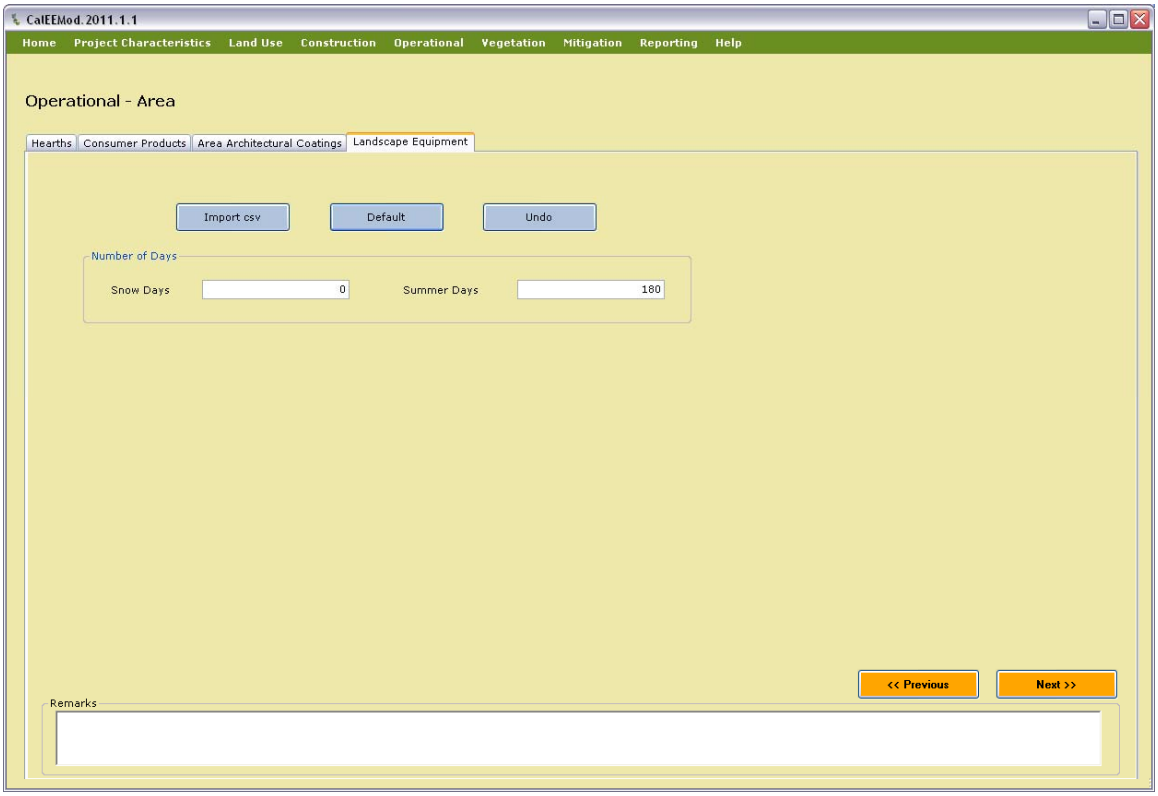
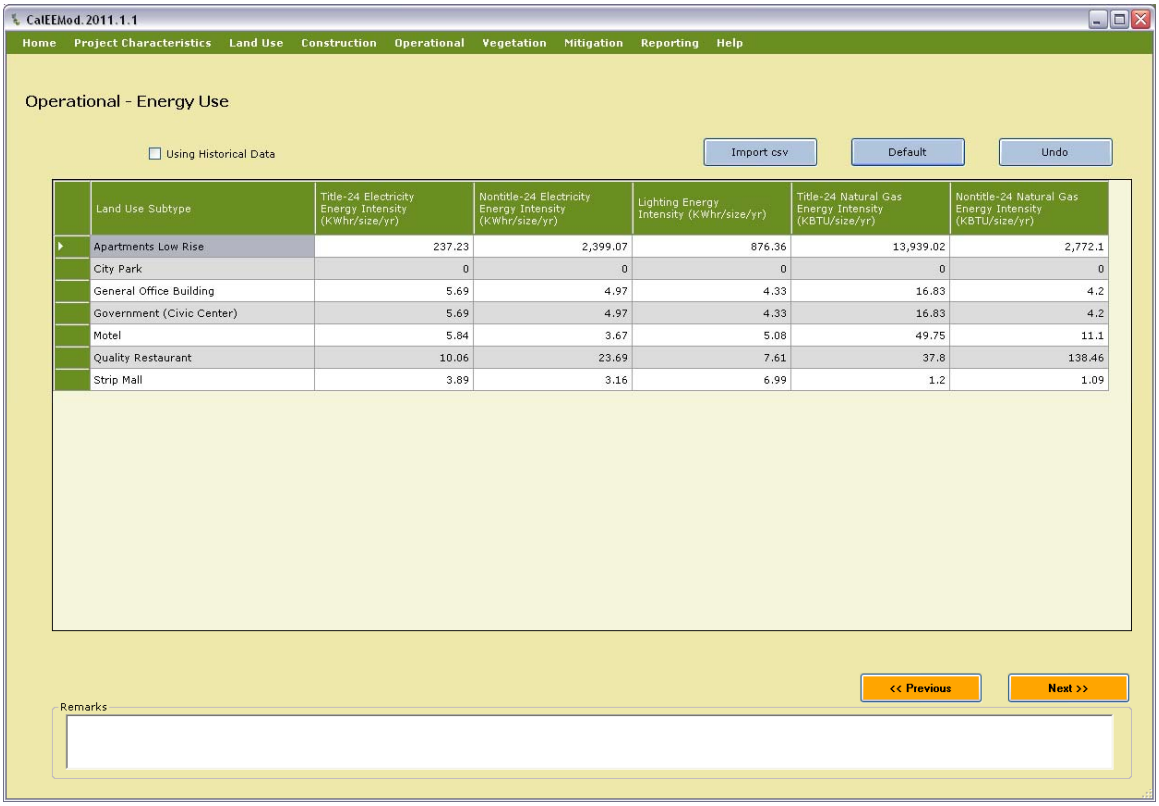
2035 Proposed Plan Uses

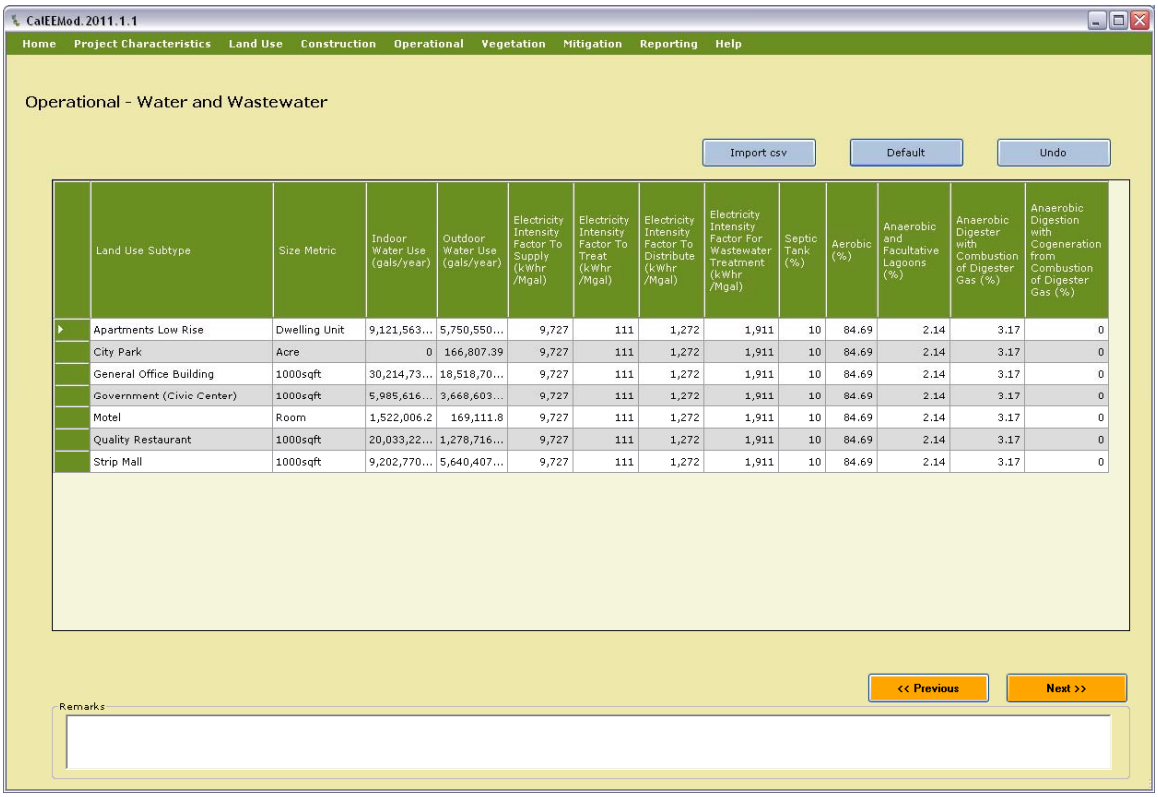




Land Use Subtype	Title-24 Electricity Energy Intensity (KWhr/size/yr)	Nontitle-24 Electricity Energy Intensity (KWhr/size/yr)	Lighting Energy Intensity (KWhr/size/yr)	Title-24 Natural Gas Energy Intensity (KBTU/size/yr)	Nontitle-24 Natural Gas Energy Intensity (KBTU/size/yr)
Apartments Low Rise	237.23	2,399.07	876.36	13,939.02	2,772.1
City Park	0	0	0	0	0
General Office Building	5.69	4.97	4.33	16.83	4.2
Government (Civic Center)	5.69	4.97	4.33	16.83	4.2
Motel	5.84	3.67	5.08	49.75	11.1
Quality Restaurant	10.06	23.69	7.61	37.8	138.46
Strip Mall	3.89	3.16	6.99	1.2	1.09

CalEEMod Input

2035 Proposed Plan Uses



CalEEMod.2011.1.1

Home | Project Characteristics | Land Use | Construction | Operational | Vegetation | Mitigation | Reporting | Help

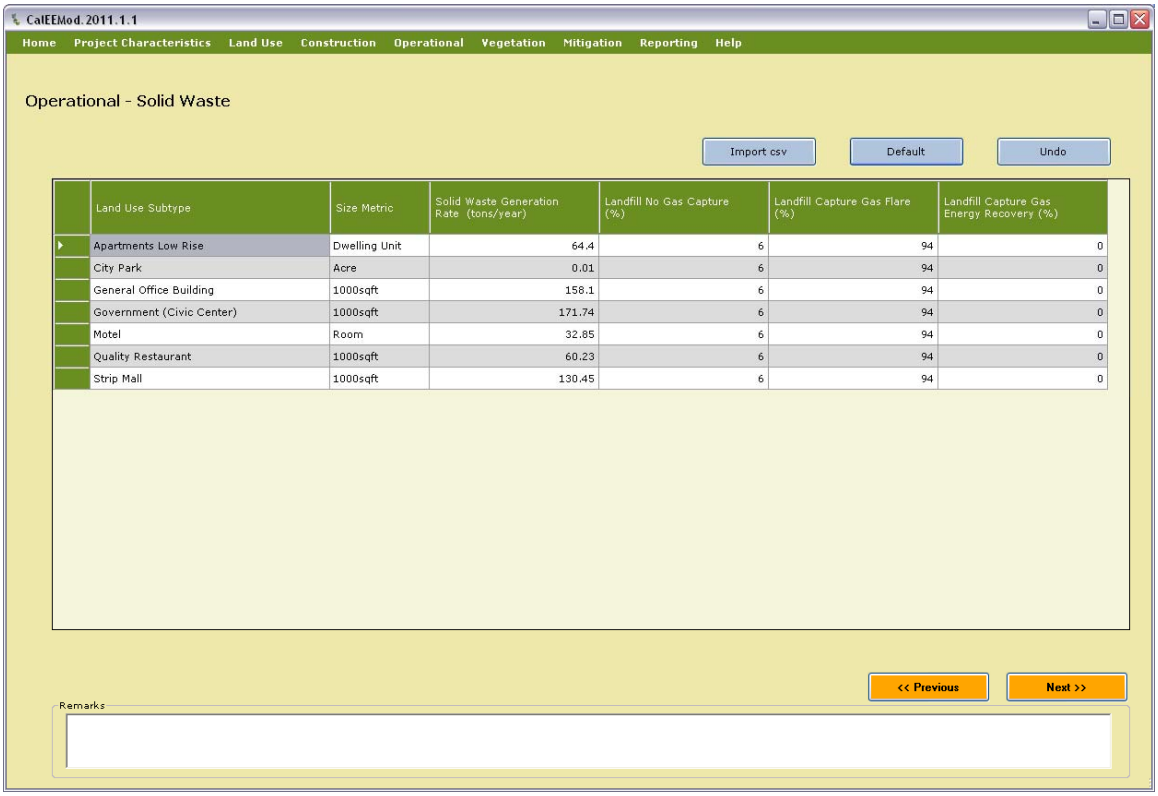
Operational - Water and Wastewater

Import csv | Default | Undo

	Land Use Subtype	Size Metric	Indoor Water Use (gals/year)	Outdoor Water Use (gals/year)	Electricity Intensity Factor To Supply (kWhr /Mgal)	Electricity Intensity Factor To Treat (kWhr /Mgal)	Electricity Intensity Factor To Distribute (kWhr /Mgal)	Electricity Intensity Factor For Wastewater Treatment (kWhr /Mgal)	Septic Tank (%)	Aerobic (%)	Anaerobic and Facultative Lagoons (%)	Anaerobic Digester with Combustion of Digester Gas (%)	Anaerobic Digestion with Cogeneration from Combustion of Digester Gas (%)
▸	Apartments Low Rise	Dwelling Unit	9,121,563...	5,750,550...	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	City Park	Acre	0	166,807.39	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	General Office Building	1000sqft	30,214,73...	18,518,70...	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	Government (Civic Center)	1000sqft	5,985,616...	3,668,603...	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	Motel	Room	1,522,006.2	169,111.8	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	Quality Restaurant	1000sqft	20,033,22...	1,278,716...	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	Strip Mall	1000sqft	9,202,770...	5,640,407...	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0

<< Previous | Next >>

Remarks



CalEEMod.2011.1.1

Home | Project Characteristics | Land Use | Construction | Operational | Vegetation | Mitigation | Reporting | Help

Operational - Solid Waste

Import csv | Default | Undo

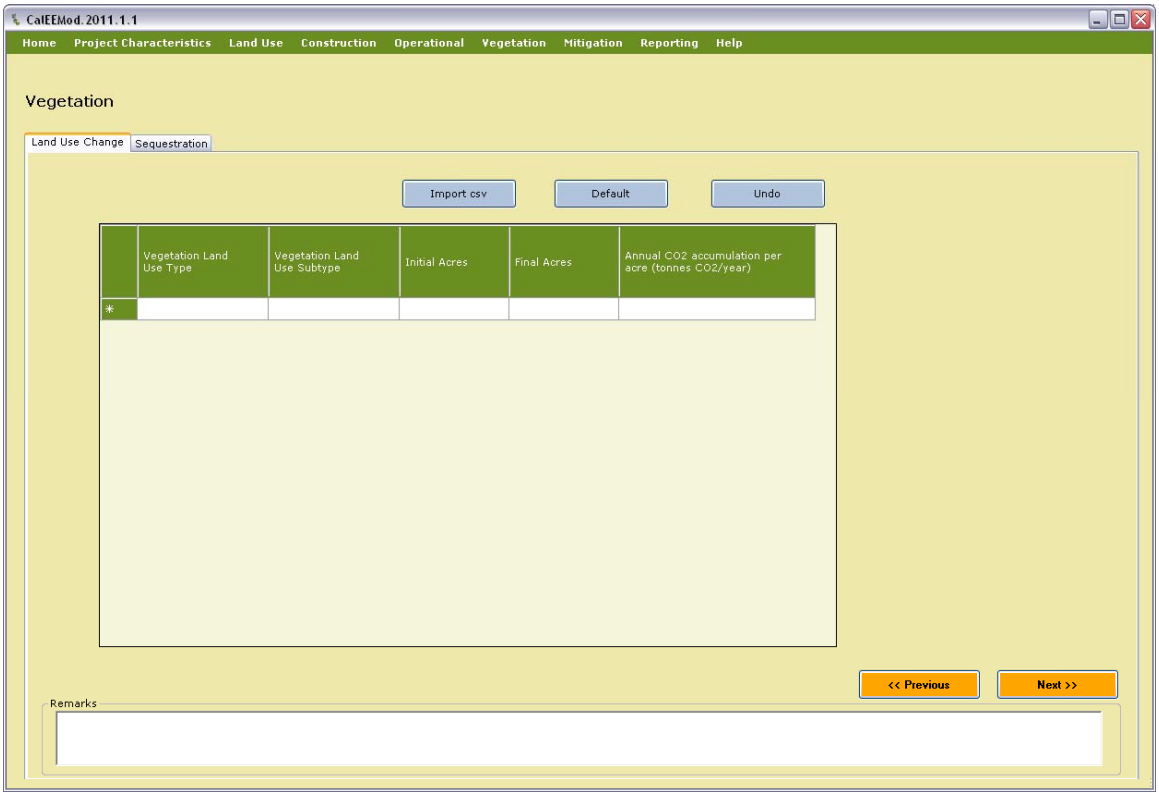
	Land Use Subtype	Size Metric	Solid Waste Generation Rate (tons/year)	Landfill No Gas Capture (%)	Landfill Capture Gas Flare (%)	Landfill Capture Gas Energy Recovery (%)
▸	Apartments Low Rise	Dwelling Unit	64.4	6	94	0
	City Park	Acre	0.01	6	94	0
	General Office Building	1000sqft	158.1	6	94	0
	Government (Civic Center)	1000sqft	171.74	6	94	0
	Motel	Room	32.85	6	94	0
	Quality Restaurant	1000sqft	60.23	6	94	0
	Strip Mall	1000sqft	130.45	6	94	0

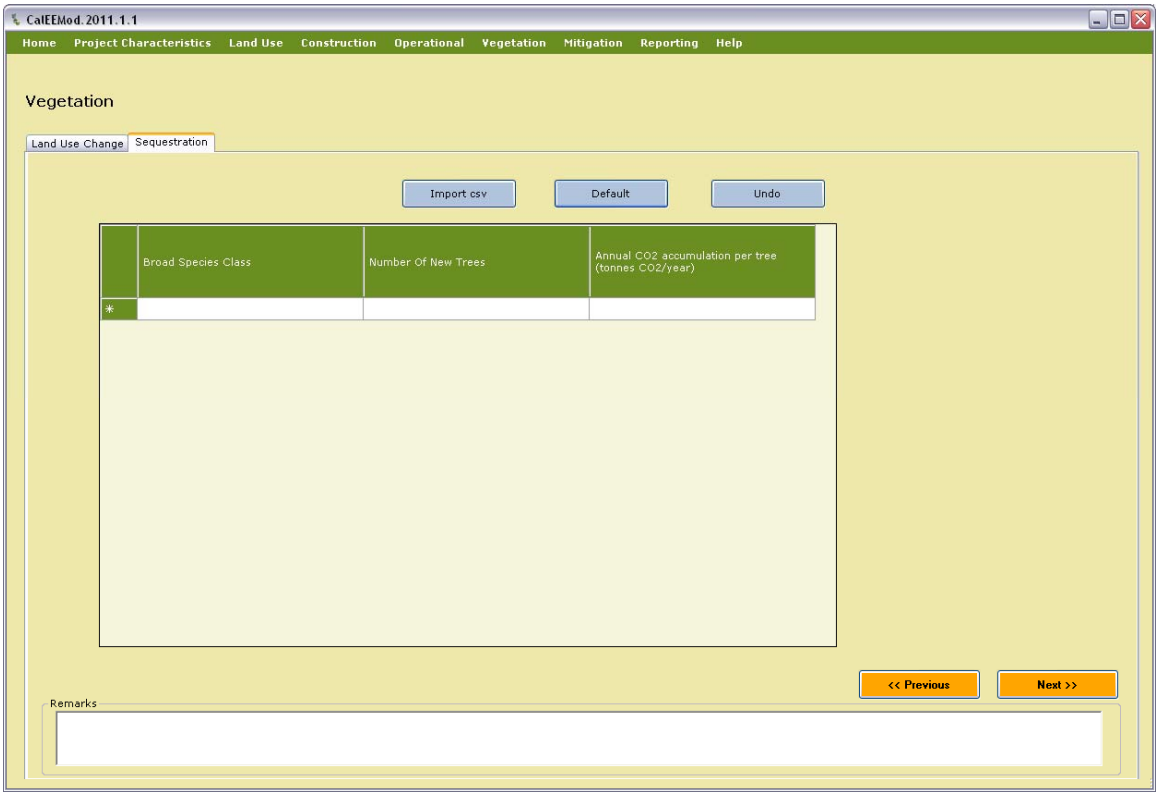
<< Previous | Next >>

Remarks

CalEEMod Input

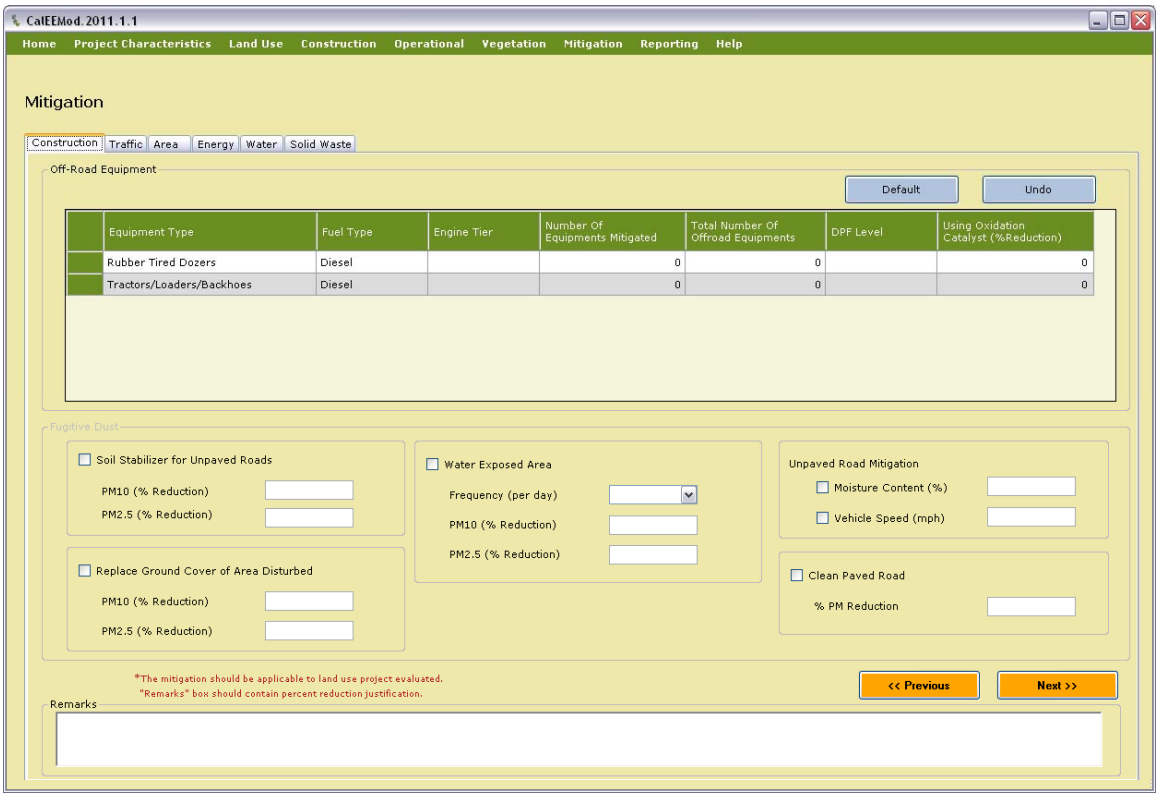
2035 Proposed Plan Uses

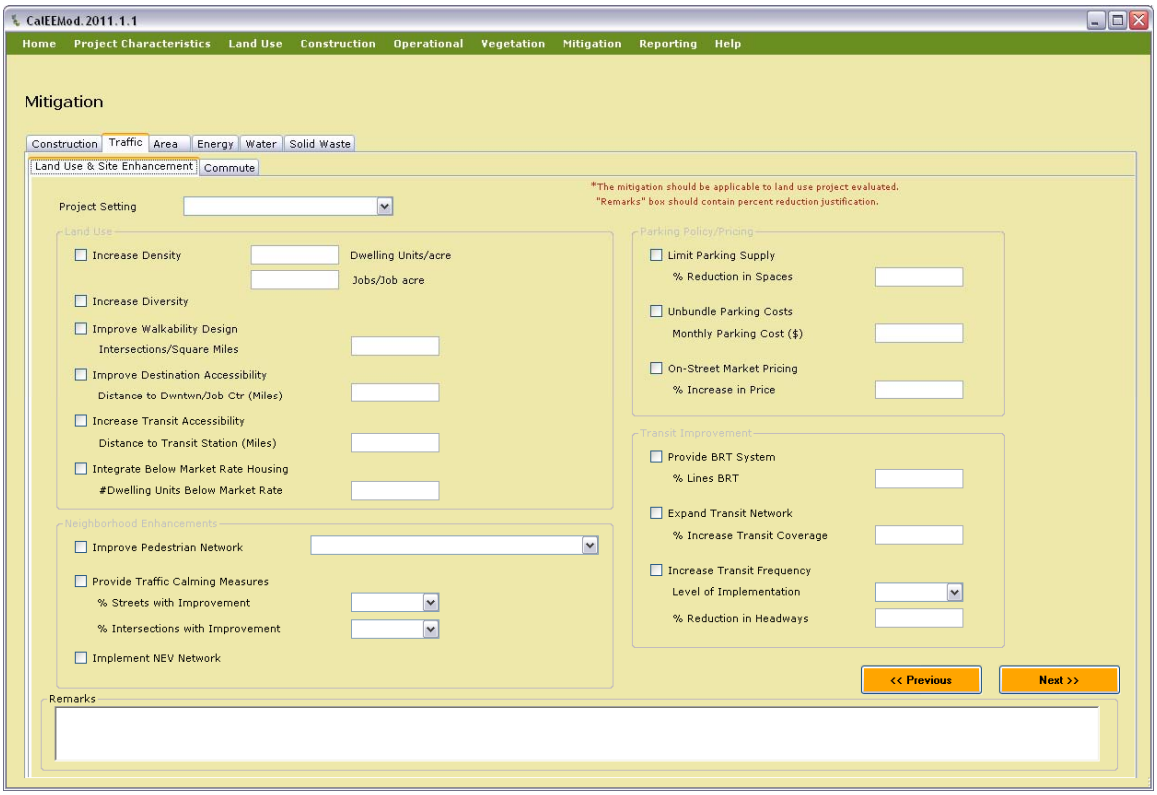




CalEEMod Input

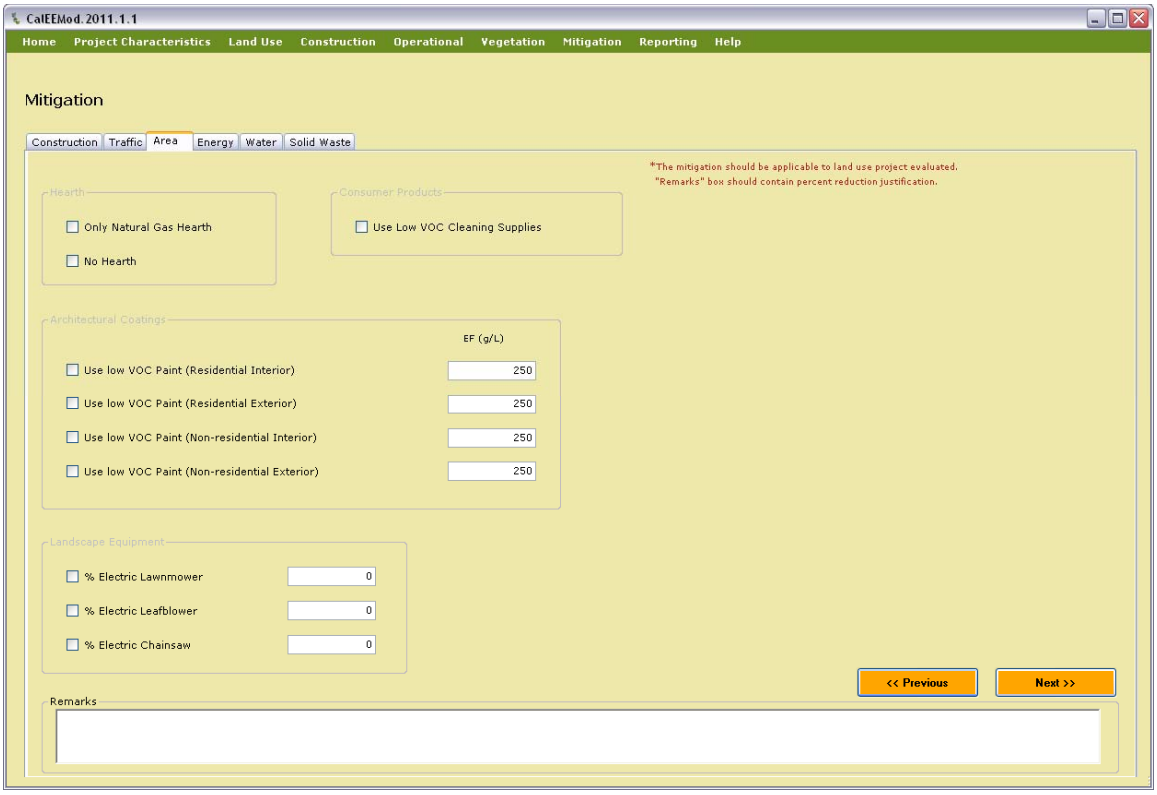
2035 Proposed Plan Uses

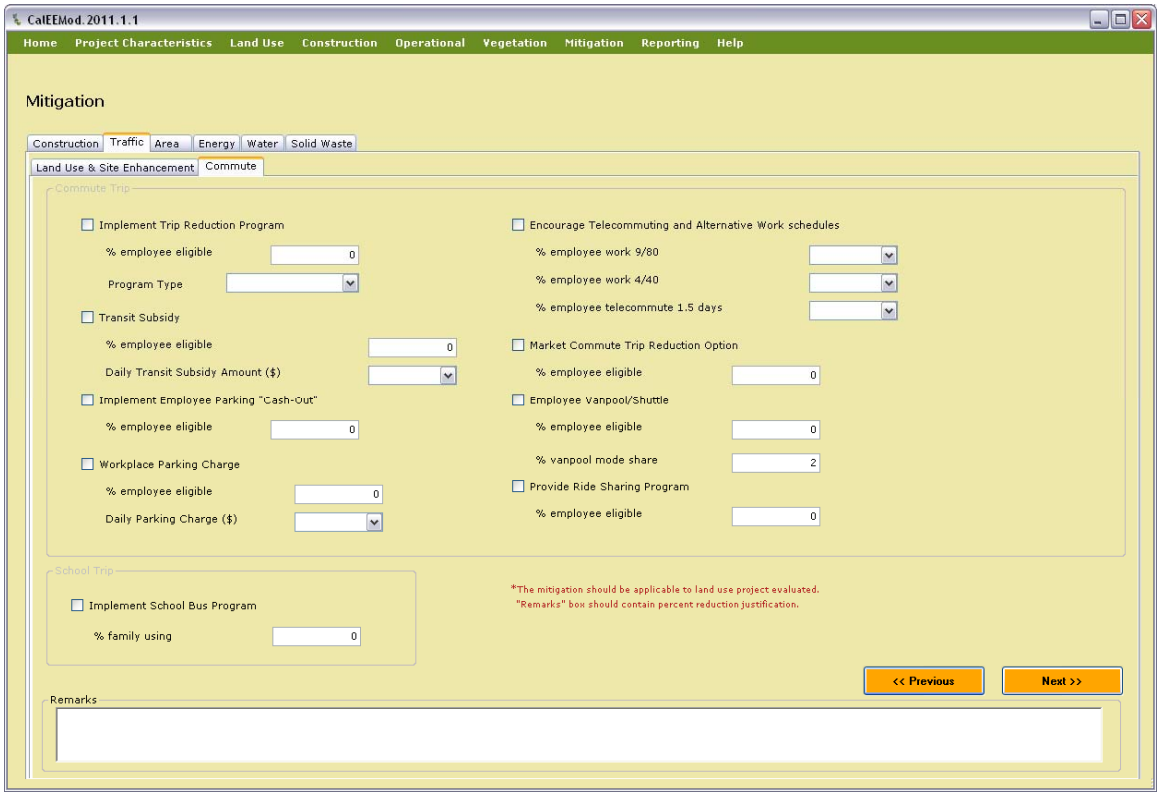




CalEEMod Input

2035 Proposed Plan Uses





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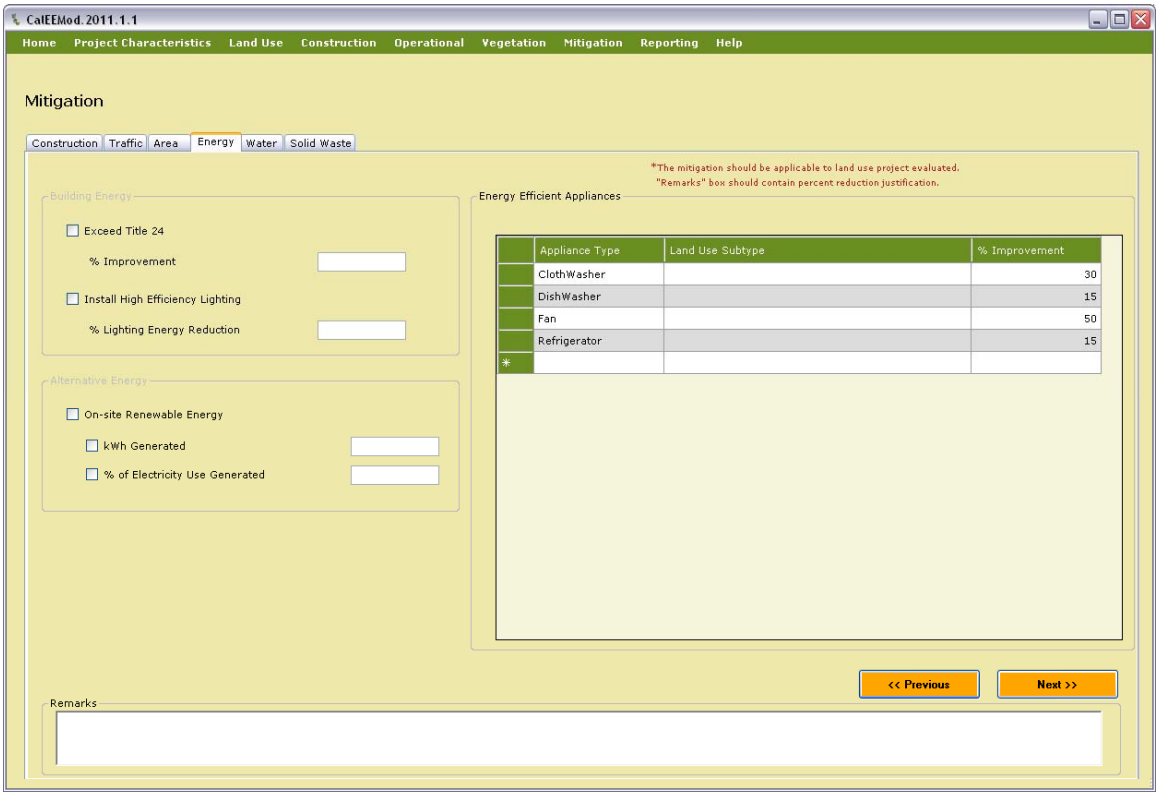
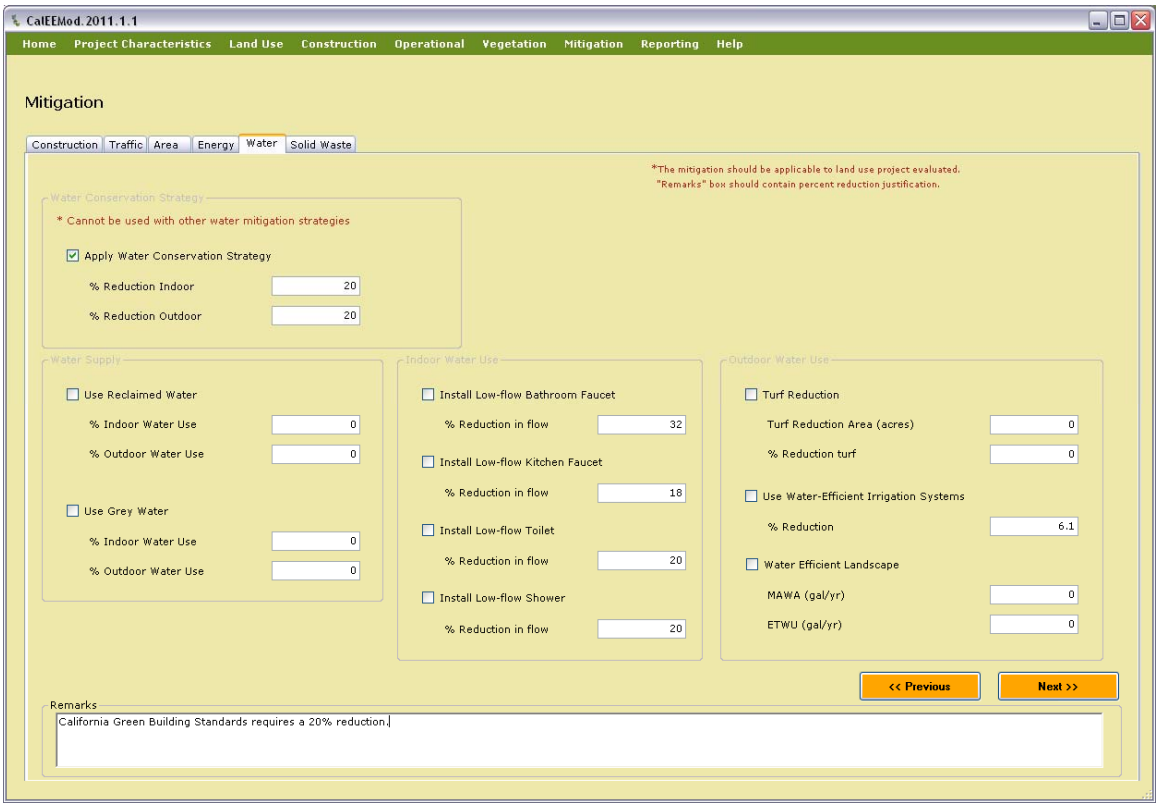
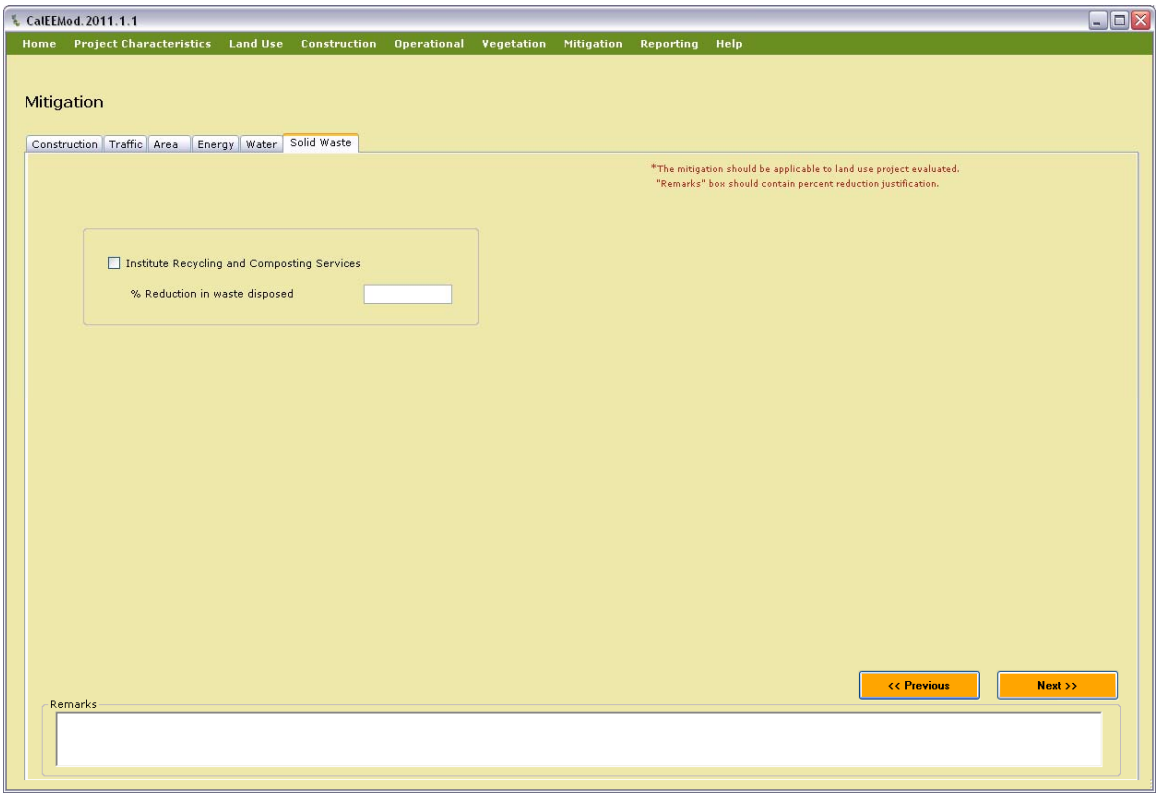




CalEEMod Input

2035 Proposed Plan Uses



CalEEMod Output, 2035 Plan—Summer

6447: Del Mar Village Specific Plan Future Uses (2035)

San Diego County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	170	1000sqft
Government (Civic Center)	30.13	1000sqft
City Park	0.14	Acre
Motel	60	Room
Quality Restaurant	66	1000sqft
Apartments Low Rise	140	Dwelling Unit
Strip Mall	124.24	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	San Diego Gas & Electric
Climate Zone	13		2.6		
		Precipitation Freq (Days)			
			40		

1.3 User Entered Comments

Project Characteristics -

Land Use - Based on land use information provided by the City of Del Mar.

Architectural Coating - California Green Build Standards VOC Content Limit is 150 g/L

Vehicle Trips - Trip rates based on KOA Traffic Impact Study.
Vechicle Emission Factors -

Energy Use -

Water Mitigation - California Green Building Standards requires a 20% reduction.

Vechicle Emission Factors -

Vechicle Emission Factors -

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					
2011	13.32	110.93	59.31	0.10	18.30	5.44	22.92	9.93	5.44	14.55	0.00	11,075.00	0.00	1.19	0.00	11,100.09
2012	449.37	54.68	50.75	0.09	3.97	3.16	7.13	0.06	3.13	3.18	0.00	8,944.47	0.00	0.75	0.00	8,960.12
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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					
2011	13.32	110.93	59.31	0.10	18.08	5.44	22.69	9.93	5.44	14.55	0.00	11,075.00	0.00	1.19	0.00	11,100.09
2012	449.37	54.68	50.75	0.09	0.18	3.16	3.34	0.06	3.13	3.18	0.00	8,944.47	0.00	0.75	0.00	8,960.12
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	90.84	1.45	120.69	0.10		0.00	15.93		0.00	15.93	1,803.24	1,651.64		3.61	0.12	3,568.43
Energy	0.59	5.30	4.21	0.03		0.00	0.41		0.00	0.41		6,403.04		0.12	0.12	6,442.01
Mobile	36.01	64.60	261.25	0.80	85.12	3.93	89.05	1.18	3.80	4.98		59,454.63		2.18		59,500.41
Total	**127.44**	**71.35**	**386.15**	**0.93**	**85.12**	**3.93**	**105.39**	**1.18**	**3.80**	**21.32**	**1,803.24**	**67,509.31**		**5.91**	**0.24**	**69,510.85**

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	90.84	1.45	120.69	0.10		0.00	15.93		0.00	15.93	1,803.24	1,651.64		3.61	0.12	3,568.43
Energy	0.59	5.30	4.21	0.03		0.00	0.41		0.00	0.41		6,403.04		0.12	0.12	6,442.01
Mobile	36.01	64.60	261.25	0.80	85.12	3.93	89.05	1.18	3.80	4.98		59,454.63		2.18		59,500.41
Total	**127.44**	**71.35**	**386.15**	**0.93**	**85.12**	**3.93**	**105.39**	**1.18**	**3.80**	**21.32**	**1,803.24**	**67,509.31**		**5.91**	**0.24**	**69,510.85**

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.2 Demolition - 2011

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	9.84	79.87	45.95	0.07		4.10	4.10		4.10	4.10		7,510.82		0.88		7,529.33
Total	**9.84**	**79.87**	**45.95**	**0.07**		**4.10**	**4.10**		**4.10**	**4.10**		**7,510.82**		**0.88**		**7,529.33**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.12	1.21	0.00	0.20	0.01	0.20	0.00	0.01	0.01		163.76		0.01		164.00
Total	**0.10**	**0.12**	**1.21**	**0.00**	**0.20**	**0.01**	**0.20**	**0.00**	**0.01**	**0.01**		**163.76**		**0.01**		**164.00**

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	9.84	79.87	45.95	0.07		4.10	4.10		4.10	4.10	0.00	7,510.82		0.88		7,529.33
Total	**9.84**	**79.87**	**45.95**	**0.07**		**4.10**	**4.10**		**4.10**	**4.10**	**0.00**	**7,510.82**		**0.88**		**7,529.33**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.12	1.21	0.00	0.01	0.01	0.01	0.00	0.01	0.01		163.76		0.01		164.00
Total	**0.10**	**0.12**	**1.21**	**0.00**	**0.01**	**0.01**	**0.01**	**0.00**	**0.01**	**0.01**		**163.76**		**0.01**		**164.00**

3.3 Site Preparation - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.07	0.00	18.07	9.93	0.00	9.93						0.00
Off-Road	10.99	89.73	50.45	0.07		4.61	4.61		4.61	4.61		7,997.70		0.99		8,018.42
Total	**10.99**	**89.73**	**50.45**	**0.07**	**18.07**	**4.61**	**22.68**	**9.93**	**4.61**	**14.54**		**7,997.70**		**0.99**		**8,018.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.12	0.14	1.45	0.00	0.23	0.01	0.24	0.00	0.01	0.01		196.51		0.01		196.80
Total	**0.12**	**0.14**	**1.45**	**0.00**	**0.23**	**0.01**	**0.24**	**0.00**	**0.01**	**0.01**		**196.51**		**0.01**		**196.80**

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					18.07	0.00	18.07	9.93	0.00	9.93						0.00
Off-Road	10.99	89.73	50.45	0.07		4.61	4.61		4.61	4.61	0.00	7,997.70		0.99		8,018.42
Total	**10.99**	**89.73**	**50.45**	**0.07**	**18.07**	**4.61**	**22.68**	**9.93**	**4.61**	**14.54**	**0.00**	**7,997.70**		**0.99**		**8,018.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.12	0.14	1.45	0.00	0.01	0.01	0.02	0.00	0.01	0.01		196.51		0.01		196.80
Total	**0.12**	**0.14**	**1.45**	**0.00**	**0.01**	**0.01**	**0.02**	**0.00**	**0.01**	**0.01**		**196.51**		**0.01**		**196.80**

3.4 Grading - 2011

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					8.67	0.00	8.67	3.31	0.00	3.31						0.00
Off-Road	13.18	110.77	57.70	0.10		5.43	5.43		5.43	5.43		10,856.66		1.18		10,881.42
Total	**13.18**	**110.77**	**57.70**	**0.10**	**8.67**	**5.43**	**14.10**	**3.31**	**5.43**	**8.74**		**10,856.66**		**1.18**		**10,881.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.14	0.16	1.61	0.00	0.26	0.01	0.27	0.00	0.01	0.01		218.35		0.02		218.67
Total	**0.14**	**0.16**	**1.61**	**0.00**	**0.26**	**0.01**	**0.27**	**0.00**	**0.01**	**0.01**		**218.35**		**0.02**		**218.67**

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					8.67	0.00	8.67	3.31	0.00	3.31						0.00
Off-Road	13.18	110.77	57.70	0.10		5.43	5.43		5.43	5.43	0.00	10,856.66		1.18		10,881.42
Total	**13.18**	**110.77**	**57.70**	**0.10**	**8.67**	**5.43**	**14.10**	**3.31**	**5.43**	**8.74**	**0.00**	**10,856.66**		**1.18**		**10,881.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.14	0.16	1.61	0.00	0.01	0.01	0.02	0.00	0.01	0.01		218.35		0.02		218.67
Total	**0.14**	**0.16**	**1.61**	**0.00**	**0.01**	**0.01**	**0.02**	**0.00**	**0.01**	**0.01**		**218.35**		**0.02**		**218.67**

3.5 Building Construction - 2011

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	6.11	40.22	24.03	0.04		2.80	2.80		2.80	2.80		4,040.62		0.55		4,052.11
Total	**6.11**	**40.22**	**24.03**	**0.04**		**2.80**	**2.80**		**2.80**	**2.80**		**4,040.62**		**0.55**		**4,052.11**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	1.44	16.74	9.66	0.02	0.77	0.56	1.33	0.02	0.51	0.53		2,281.88		0.07		2,283.37
Worker	1.70	1.97	19.77	0.03	3.20	0.11	3.31	0.04	0.10	0.14		2,674.73		0.19		2,678.69
Total	**3.14**	**18.71**	**29.43**	**0.05**	**3.97**	**0.67**	**4.64**	**0.06**	**0.61**	**0.67**		**4,956.61**		**0.26**		**4,962.06**

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	6.11	40.22	24.03	0.04		2.80	2.80		2.80	2.80	0.00	4,040.62		0.55		4,052.11
Total	**6.11**	**40.22**	**24.03**	**0.04**		**2.80**	**2.80**		**2.80**	**2.80**	**0.00**	**4,040.62**		**0.55**		**4,052.11**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	1.44	16.74	9.66	0.02	0.06	0.56	0.62	0.02	0.51	0.53		2,281.88		0.07		2,283.37
Worker	1.70	1.97	19.77	0.03	0.12	0.11	0.23	0.04	0.10	0.14		2,674.73		0.19		2,678.69
Total	**3.14**	**18.71**	**29.43**	**0.05**	**0.18**	**0.67**	**0.85**	**0.06**	**0.61**	**0.67**		**4,956.61**		**0.26**		**4,962.06**

3.5 Building Construction - 2012

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	5.63	37.37	23.73	0.04		2.54	2.54		2.54	2.54		4,040.62		0.51		4,051.23
Total	**5.63**	**37.37**	**23.73**	**0.04**		**2.54**	**2.54**		**2.54**	**2.54**		**4,040.62**		**0.51**		**4,051.23**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	1.33	15.51	8.88	0.02	0.77	0.51	1.29	0.02	0.47	0.49		2,285.99		0.07		2,287.37
Worker	1.57	1.80	18.13	0.03	3.20	0.11	3.31	0.04	0.10	0.14		2,617.86		0.17		2,621.53
Total	**2.90**	**17.31**	**27.01**	**0.05**	**3.97**	**0.62**	**4.60**	**0.06**	**0.57**	**0.63**		**4,903.85**		**0.24**		**4,908.90**

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	5.63	37.37	23.73	0.04		2.54	2.54		2.54	2.54	0.00	4,040.62		0.51		4,051.23
Total	**5.63**	**37.37**	**23.73**	**0.04**		**2.54**	**2.54**		**2.54**	**2.54**	**0.00**	**4,040.62**		**0.51**		**4,051.23**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	1.33	15.51	8.88	0.02	0.06	0.51	0.57	0.02	0.47	0.49		2,285.99		0.07		2,287.37
Worker	1.57	1.80	18.13	0.03	0.12	0.11	0.23	0.04	0.10	0.14		2,617.86		0.17		2,621.53
Total	**2.90**	**17.31**	**27.01**	**0.05**	**0.18**	**0.62**	**0.80**	**0.06**	**0.57**	**0.63**		**4,903.85**		**0.24**		**4,908.90**

3.6 Paving - 2012

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	5.86	35.62	21.08	0.03		3.13	3.13		3.13	3.13		2,917.64		0.53		2,928.70
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**5.86**	**35.62**	**21.08**	**0.03**		**3.13**	**3.13**		**3.13**	**3.13**		**2,917.64**		**0.53**		**2,928.70**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.11	1.11	0.00	0.20	0.01	0.20	0.00	0.01	0.01		160.28		0.01		160.50
Total	**0.10**	**0.11**	**1.11**	**0.00**	**0.20**	**0.01**	**0.20**	**0.00**	**0.01**	**0.01**		**160.28**		**0.01**		**160.50**

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	5.86	35.62	21.08	0.03		3.13	3.13		3.13	3.13	0.00	2,917.64		0.53		2,928.70
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**5.86**	**35.62**	**21.08**	**0.03**		**3.13**	**3.13**		**3.13**	**3.13**	**0.00**	**2,917.64**		**0.53**		**2,928.70**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.11	1.11	0.00	0.01	0.01	0.01	0.00	0.01	0.01		160.28		0.01		160.50
Total	**0.10**	**0.11**	**1.11**	**0.00**	**0.01**	**0.01**	**0.01**	**0.00**	**0.01**	**0.01**		**160.28**		**0.01**		**160.50**

3.7 Architectural Coating - 2012

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	448.53					0.00	0.00		0.00	0.00						0.00
Off-Road	0.52	3.16	1.96	0.00		0.29	0.29		0.29	0.29		281.19		0.05		282.18
Total	**449.05**	**3.16**	**1.96**	**0.00**		**0.29**	**0.29**		**0.29**	**0.29**		**281.19**		**0.05**		**282.18**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.31	0.36	3.63	0.01	0.64	0.02	0.66	0.01	0.02	0.03		523.57		0.03		524.31
Total	**0.31**	**0.36**	**3.63**	**0.01**	**0.64**	**0.02**	**0.66**	**0.01**	**0.02**	**0.03**		**523.57**		**0.03**		**524.31**

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	448.53					0.00	0.00		0.00	0.00						0.00
Off-Road	0.52	3.16	1.96	0.00		0.29	0.29		0.29	0.29	0.00	281.19		0.05		282.18
Total	**449.05**	**3.16**	**1.96**	**0.00**		**0.29**	**0.29**		**0.29**	**0.29**	**0.00**	**281.19**		**0.05**		**282.18**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.31	0.36	3.63	0.01	0.02	0.02	0.05	0.01	0.02	0.03		523.57		0.03		524.31
Total	**0.31**	**0.36**	**3.63**	**0.01**	**0.02**	**0.02**	**0.05**	**0.01**	**0.02**	**0.03**		**523.57**		**0.03**		**524.31**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	36.01	64.60	261.25	0.80	85.12	3.93	89.05	1.18	3.80	4.98		59,454.63		2.18		59,500.41
Unmitigated	36.01	64.60	261.25	0.80	85.12	3.93	89.05	1.18	3.80	4.98		59,454.63		2.18		59,500.41
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,120.00	1,002.40	849.80	1,995,893	1,995,893
City Park	0.22	0.22	0.22	344	344
General Office Building	3,400.00	69.70	23.80	4,218,095	4,218,095
Government (Civic Center)	903.90	0.00	0.00	801,163	801,163
Motel	540.00	630.00	504.00	781,323	781,323
Quality Restaurant	10,560.00	6,227.76	4762.56	8,322,595	8,322,595
Strip Mall	4,969.60	5,223.05	2538.22	5,434,661	5,434,661
Total	21,493.72	13,153.13	8,678.61	21,554,074	21,554,074

4.3 Trip Type Information

	Miles			Trip %		
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
Apartments Low Rise	5.80	5.80	5.80	41.60	18.80	39.60
City Park	5.80	5.80	5.80	33.00	48.00	19.00
General Office Building	5.80	5.80	5.80	33.00	48.00	19.00
Government (Civic Center)	5.80	5.80	5.80	75.00	20.00	5.00
Motel	5.80	5.80	5.80	19.00	62.00	19.00
Quality Restaurant	5.80	5.80	5.80	12.00	69.00	19.00
Strip Mall	5.80	5.80	5.80	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.59	5.30	4.21	0.03		0.00	0.41		0.00	0.41		6,403.04		0.12	0.12	6,442.01
NaturalGas Unmitigated	0.59	5.30	4.21	0.03		0.00	0.41		0.00	0.41		6,403.04		0.12	0.12	6,442.01
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	lb/day										lb/day					
Apartments Low Rise	6409.74	0.07	0.59	0.25	0.00		0.00	0.05		0.00	0.05		754.09		0.01	0.01	758.68
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
General Office Building	9794.79	0.11	0.96	0.81	0.01		0.00	0.07		0.00	0.07		1,152.33		0.02	0.02	1,159.34
Government (Civic Center)	1735.75	0.02	0.17	0.14	0.00		0.00	0.01		0.00	0.01		204.21		0.00	0.00	205.45
Motel	3834.38	0.04	0.38	0.32	0.00		0.00	0.03		0.00	0.03		451.10		0.01	0.01	453.85
Quality Restaurant	31871.7	0.34	3.12	2.62	0.02		0.00	0.24		0.00	0.24		3,749.61		0.07	0.07	3,772.43
Strip Mall	779.472	0.01	0.08	0.06	0.00		0.00	0.01		0.00	0.01		91.70		0.00	0.00	92.26
Total		**0.59**	**5.30**	**4.20**	**0.03**		**0.00**	**0.41**		**0.00**	**0.41**		**6,403.04**		**0.11**	**0.11**	**6,442.01**

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	lb/day										lb/day					
Apartments Low Rise	6.40974	0.07	0.59	0.25	0.00		0.00	0.05		0.00	0.05		754.09		0.01	0.01	758.68
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
General Office Building	9.79479	0.11	0.96	0.81	0.01		0.00	0.07		0.00	0.07		1,152.33		0.02	0.02	1,159.34
Government (Civic Center)	1.73575	0.02	0.17	0.14	0.00		0.00	0.01		0.00	0.01		204.21		0.00	0.00	205.45
Motel	3.83438	0.04	0.38	0.32	0.00		0.00	0.03		0.00	0.03		451.10		0.01	0.01	453.85
Quality Restaurant	31.8717	0.34	3.12	2.62	0.02		0.00	0.24		0.00	0.24		3,749.61		0.07	0.07	3,772.43
Strip Mall	0.779472	0.01	0.08	0.06	0.00		0.00	0.01		0.00	0.01		91.70		0.00	0.00	92.26
Total		**0.59**	**5.30**	**4.20**	**0.03**		**0.00**	**0.41**		**0.00**	**0.41**		**6,403.04**		**0.11**	**0.11**	**6,442.01**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	90.84	1.45	120.69	0.10		0.00	15.93		0.00	15.93	1,803.24	1,651.64		3.61	0.12	3,568.43
Unmitigated	90.84	1.45	120.69	0.10		0.00	15.93		0.00	15.93	1,803.24	1,651.64		3.61	0.12	3,568.43
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	4.10					0.00	0.00		0.00	0.00						0.00
Consumer Products	12.56					0.00	0.00		0.00	0.00						0.00
Hearth	73.84	1.31	109.05	0.10		0.00	15.87		0.00	15.86	1,803.24	1,630.59		3.59	0.12	3,546.96
Landscaping	0.35	0.13	11.64	0.00		0.00	0.06		0.00	0.06		21.05		0.02		21.47
Total	**90.85**	**1.44**	**120.69**	**0.10**		**0.00**	**15.93**		**0.00**	**15.92**	**1,803.24**	**1,651.64**		**3.61**	**0.12**	**3,568.43**

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	4.10					0.00	0.00		0.00	0.00						0.00
Consumer Products	12.56					0.00	0.00		0.00	0.00						0.00
Hearth	73.84	1.31	109.05	0.10		0.00	15.87		0.00	15.86	1,803.24	1,630.59		3.59	0.12	3,546.96
Landscaping	0.35	0.13	11.64	0.00		0.00	0.06		0.00	0.06		21.05		0.02		21.47
Total	**90.85**	**1.44**	**120.69**	**0.10**		**0.00**	**15.93**		**0.00**	**15.92**	**1,803.24**	**1,651.64**		**3.61**	**0.12**	**3,568.43**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

CalEEMod Output, 2035 Plan—Winter

6447: Del Mar Village Specific Plan Future Uses (2035)

San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	170	1000sqft
Government (Civic Center)	30.13	1000sqft
City Park	0.14	Acre
Motel	60	Room
Quality Restaurant	66	1000sqft
Apartments Low Rise	140	Dwelling Unit
Strip Mall	124.24	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	San Diego Gas & Electric
Climate Zone	13		2.6		
		Precipitation Freq (Days)			
			40		

1.3 User Entered Comments

Project Characteristics -

Land Use - Based on land use information provided by the City of Del Mar.

Architectural Coating - California Green Build Standards VOC Content Limit is 150 g/L

Vehicle Trips - Trip rates based on KOA Traffic Impact Study.
Trip length adjusted to SANDAG's regional average trip length of 5.8 miles.

Vechicle Emission Factors -

Energy Use -

Water Mitigation - California Green Building Standards requires a 20% reduction.

Vechicle Emission Factors -

Vechicle Emission Factors -

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					
2011	13.33	110.95	59.23	0.10	18.30	5.44	22.92	9.93	5.44	14.55	0.00	11,058.34	0.00	1.19	0.00	11,083.42
2012	449.40	55.17	50.90	0.09	3.97	3.18	7.15	0.06	3.13	3.19	0.00	8,726.50	0.00	0.74	0.00	8,742.09
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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					
2011	13.33	110.95	59.23	0.10	18.08	5.44	22.69	9.93	5.44	14.55	0.00	11,058.34	0.00	1.19	0.00	11,083.42
2012	449.40	55.17	50.90	0.09	0.18	3.18	3.35	0.06	3.13	3.19	0.00	8,726.50	0.00	0.74	0.00	8,742.09
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	90.84	1.45	120.69	0.10		0.00	15.93		0.00	15.93	1,803.24	1,651.64		3.61	0.12	3,568.43
Energy	0.59	5.30	4.21	0.03		0.00	0.41		0.00	0.41		6,403.04		0.12	0.12	6,442.01
Mobile	37.35	64.81	273.08	0.75	85.12	3.96	89.09	1.18	3.83	5.01		55,705.57		2.20		55,751.69
Total	**128.78**	**71.56**	**397.98**	**0.88**	**85.12**	**3.96**	**105.43**	**1.18**	**3.83**	**21.35**	**1,803.24**	**63,760.25**		**5.93**	**0.24**	**65,762.13**

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	90.84	1.45	120.69	0.10		0.00	15.93		0.00	15.93	1,803.24	1,651.64		3.61	0.12	3,568.43
Energy	0.59	5.30	4.21	0.03		0.00	0.41		0.00	0.41		6,403.04		0.12	0.12	6,442.01
Mobile	37.35	64.81	273.08	0.75	85.12	3.96	89.09	1.18	3.83	5.01		55,705.57		2.20		55,751.69
Total	**128.78**	**71.56**	**397.98**	**0.88**	**85.12**	**3.96**	**105.43**	**1.18**	**3.83**	**21.35**	**1,803.24**	**63,760.25**		**5.93**	**0.24**	**65,762.13**

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.2 Demolition - 2011

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	9.84	79.87	45.95	0.07		4.10	4.10		4.10	4.10		7,510.82		0.88		7,529.33
Total	**9.84**	**79.87**	**45.95**	**0.07**		**4.10**	**4.10**		**4.10**	**4.10**		**7,510.82**		**0.88**		**7,529.33**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.13	1.15	0.00	0.20	0.01	0.20	0.00	0.01	0.01		151.26		0.01		151.50
Total	**0.11**	**0.13**	**1.15**	**0.00**	**0.20**	**0.01**	**0.20**	**0.00**	**0.01**	**0.01**		**151.26**		**0.01**		**151.50**

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	9.84	79.87	45.95	0.07		4.10	4.10		4.10	4.10	0.00	7,510.82		0.88		7,529.33
Total	**9.84**	**79.87**	**45.95**	**0.07**		**4.10**	**4.10**		**4.10**	**4.10**	**0.00**	**7,510.82**		**0.88**		**7,529.33**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.13	1.15	0.00	0.01	0.01	0.01	0.00	0.01	0.01		151.26		0.01		151.50
Total	**0.11**	**0.13**	**1.15**	**0.00**	**0.01**	**0.01**	**0.01**	**0.00**	**0.01**	**0.01**		**151.26**		**0.01**		**151.50**

3.3 Site Preparation - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.07	0.00	18.07	9.93	0.00	9.93						0.00
Off-Road	10.99	89.73	50.45	0.07		4.61	4.61		4.61	4.61		7,997.70		0.99		8,018.42
Total	**10.99**	**89.73**	**50.45**	**0.07**	**18.07**	**4.61**	**22.68**	**9.93**	**4.61**	**14.54**		**7,997.70**		**0.99**		**8,018.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.14	0.16	1.38	0.00	0.23	0.01	0.24	0.00	0.01	0.01		181.52		0.01		181.80
Total	**0.14**	**0.16**	**1.38**	**0.00**	**0.23**	**0.01**	**0.24**	**0.00**	**0.01**	**0.01**		**181.52**		**0.01**		**181.80**

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					18.07	0.00	18.07	9.93	0.00	9.93						0.00
Off-Road	10.99	89.73	50.45	0.07		4.61	4.61		4.61	4.61	0.00	7,997.70		0.99		8,018.42
Total	**10.99**	**89.73**	**50.45**	**0.07**	**18.07**	**4.61**	**22.68**	**9.93**	**4.61**	**14.54**	**0.00**	**7,997.70**		**0.99**		**8,018.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.14	0.16	1.38	0.00	0.01	0.01	0.02	0.00	0.01	0.01		181.52		0.01		181.80
Total	**0.14**	**0.16**	**1.38**	**0.00**	**0.01**	**0.01**	**0.02**	**0.00**	**0.01**	**0.01**		**181.52**		**0.01**		**181.80**

3.4 Grading - 2011

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					8.67	0.00	8.67	3.31	0.00	3.31						0.00
Off-Road	13.18	110.77	57.70	0.10		5.43	5.43		5.43	5.43		10,856.66		1.18		10,881.42
Total	**13.18**	**110.77**	**57.70**	**0.10**	**8.67**	**5.43**	**14.10**	**3.31**	**5.43**	**8.74**		**10,856.66**		**1.18**		**10,881.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.15	0.18	1.54	0.00	0.26	0.01	0.27	0.00	0.01	0.01		201.69		0.01		202.00
Total	**0.15**	**0.18**	**1.54**	**0.00**	**0.26**	**0.01**	**0.27**	**0.00**	**0.01**	**0.01**		**201.69**		**0.01**		**202.00**

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					8.67	0.00	8.67	3.31	0.00	3.31						0.00
Off-Road	13.18	110.77	57.70	0.10		5.43	5.43		5.43	5.43	0.00	10,856.66		1.18		10,881.42
Total	**13.18**	**110.77**	**57.70**	**0.10**	**8.67**	**5.43**	**14.10**	**3.31**	**5.43**	**8.74**	**0.00**	**10,856.66**		**1.18**		**10,881.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.15	0.18	1.54	0.00	0.01	0.01	0.02	0.00	0.01	0.01		201.69		0.01		202.00
Total	**0.15**	**0.18**	**1.54**	**0.00**	**0.01**	**0.01**	**0.02**	**0.00**	**0.01**	**0.01**		**201.69**		**0.01**		**202.00**

3.5 Building Construction - 2011

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	6.11	40.22	24.03	0.04		2.80	2.80		2.80	2.80		4,040.62		0.55		4,052.11
Total	**6.11**	**40.22**	**24.03**	**0.04**		**2.80**	**2.80**		**2.80**	**2.80**		**4,040.62**		**0.55**		**4,052.11**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	1.51	17.12	10.72	0.02	0.77	0.57	1.34	0.02	0.52	0.54		2,264.55		0.07		2,266.11
Worker	1.85	2.15	18.82	0.02	3.20	0.11	3.31	0.04	0.10	0.14		2,470.64		0.18		2,474.47
Total	**3.36**	**19.27**	**29.54**	**0.04**	**3.97**	**0.68**	**4.65**	**0.06**	**0.62**	**0.68**		**4,735.19**		**0.25**		**4,740.58**

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	6.11	40.22	24.03	0.04		2.80	2.80		2.80	2.80	0.00	4,040.62		0.55		4,052.11
Total	**6.11**	**40.22**	**24.03**	**0.04**		**2.80**	**2.80**		**2.80**	**2.80**	**0.00**	**4,040.62**		**0.55**		**4,052.11**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	1.51	17.12	10.72	0.02	0.06	0.57	0.63	0.02	0.52	0.54		2,264.55		0.07		2,266.11
Worker	1.85	2.15	18.82	0.02	0.12	0.11	0.23	0.04	0.10	0.14		2,470.64		0.18		2,474.47
Total	**3.36**	**19.27**	**29.54**	**0.04**	**0.18**	**0.68**	**0.86**	**0.06**	**0.62**	**0.68**		**4,735.19**		**0.25**		**4,740.58**

3.5 Building Construction - 2012

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	5.63	37.37	23.73	0.04		2.54	2.54		2.54	2.54		4,040.62		0.51		4,051.23
Total	**5.63**	**37.37**	**23.73**	**0.04**		**2.54**	**2.54**		**2.54**	**2.54**		**4,040.62**		**0.51**		**4,051.23**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	1.39	15.83	9.93	0.02	0.77	0.52	1.30	0.02	0.48	0.50		2,268.27		0.07		2,269.70
Worker	1.71	1.97	17.24	0.02	3.20	0.11	3.31	0.04	0.10	0.14		2,417.62		0.17		2,421.16
Total	**3.10**	**17.80**	**27.17**	**0.04**	**3.97**	**0.63**	**4.61**	**0.06**	**0.58**	**0.64**		**4,685.89**		**0.24**		**4,690.86**

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	5.63	37.37	23.73	0.04		2.54	2.54		2.54	2.54	0.00	4,040.62		0.51		4,051.23
Total	**5.63**	**37.37**	**23.73**	**0.04**		**2.54**	**2.54**		**2.54**	**2.54**	**0.00**	**4,040.62**		**0.51**		**4,051.23**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	1.39	15.83	9.93	0.02	0.06	0.52	0.58	0.02	0.48	0.50		2,268.27		0.07		2,269.70
Worker	1.71	1.97	17.24	0.02	0.12	0.11	0.23	0.04	0.10	0.14		2,417.62		0.17		2,421.16
Total	**3.10**	**17.80**	**27.17**	**0.04**	**0.18**	**0.63**	**0.81**	**0.06**	**0.58**	**0.64**		**4,685.89**		**0.24**		**4,690.86**

3.6 Paving - 2012

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	5.86	35.62	21.08	0.03		3.13	3.13		3.13	3.13		2,917.64		0.53		2,928.70
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**5.86**	**35.62**	**21.08**	**0.03**		**3.13**	**3.13**		**3.13**	**3.13**		**2,917.64**		**0.53**		**2,928.70**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.12	1.06	0.00	0.20	0.01	0.20	0.00	0.01	0.01		148.02		0.01		148.23
Total	**0.10**	**0.12**	**1.06**	**0.00**	**0.20**	**0.01**	**0.20**	**0.00**	**0.01**	**0.01**		**148.02**		**0.01**		**148.23**

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	5.86	35.62	21.08	0.03		3.13	3.13		3.13	3.13	0.00	2,917.64		0.53		2,928.70
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**5.86**	**35.62**	**21.08**	**0.03**		**3.13**	**3.13**		**3.13**	**3.13**	**0.00**	**2,917.64**		**0.53**		**2,928.70**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.12	1.06	0.00	0.01	0.01	0.01	0.00	0.01	0.01		148.02		0.01		148.23
Total	**0.10**	**0.12**	**1.06**	**0.00**	**0.01**	**0.01**	**0.01**	**0.00**	**0.01**	**0.01**		**148.02**		**0.01**		**148.23**

3.7 Architectural Coating - 2012

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	448.53					0.00	0.00		0.00	0.00						0.00
Off-Road	0.52	3.16	1.96	0.00		0.29	0.29		0.29	0.29		281.19		0.05		282.18
Total	**449.05**	**3.16**	**1.96**	**0.00**		**0.29**	**0.29**		**0.29**	**0.29**		**281.19**		**0.05**		**282.18**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.34	0.39	3.45	0.00	0.64	0.02	0.66	0.01	0.02	0.03		483.52		0.03		484.23
Total	**0.34**	**0.39**	**3.45**	**0.00**	**0.64**	**0.02**	**0.66**	**0.01**	**0.02**	**0.03**		**483.52**		**0.03**		**484.23**

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	448.53					0.00	0.00		0.00	0.00						0.00
Off-Road	0.52	3.16	1.96	0.00		0.29	0.29		0.29	0.29	0.00	281.19		0.05		282.18
Total	**449.05**	**3.16**	**1.96**	**0.00**		**0.29**	**0.29**		**0.29**	**0.29**	**0.00**	**281.19**		**0.05**		**282.18**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.34	0.39	3.45	0.00	0.02	0.02	0.05	0.01	0.02	0.03		483.52		0.03		484.23
Total	**0.34**	**0.39**	**3.45**	**0.00**	**0.02**	**0.02**	**0.05**	**0.01**	**0.02**	**0.03**		**483.52**		**0.03**		**484.23**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	37.35	64.81	273.08	0.75	85.12	3.96	89.09	1.18	3.83	5.01		55,705.57		2.20		55,751.69
Unmitigated	37.35	64.81	273.08	0.75	85.12	3.96	89.09	1.18	3.83	5.01		55,705.57		2.20		55,751.69
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,120.00	1,002.40	849.80	1,995,893	1,995,893
City Park	0.22	0.22	0.22	344	344
General Office Building	3,400.00	69.70	23.80	4,218,095	4,218,095
Government (Civic Center)	903.90	0.00	0.00	801,163	801,163
Motel	540.00	630.00	504.00	781,323	781,323
Quality Restaurant	10,560.00	6,227.76	4762.56	8,322,595	8,322,595
Strip Mall	4,969.60	5,223.05	2538.22	5,434,661	5,434,661
Total	21,493.72	13,153.13	8,678.61	21,554,074	21,554,074

4.3 Trip Type Information

	Miles			Trip %		
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
Apartments Low Rise	5.80	5.80	5.80	41.60	18.80	39.60
City Park	5.80	5.80	5.80	33.00	48.00	19.00
General Office Building	5.80	5.80	5.80	33.00	48.00	19.00
Government (Civic Center)	5.80	5.80	5.80	75.00	20.00	5.00
Motel	5.80	5.80	5.80	19.00	62.00	19.00
Quality Restaurant	5.80	5.80	5.80	12.00	69.00	19.00
Strip Mall	5.80	5.80	5.80	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.59	5.30	4.21	0.03		0.00	0.41		0.00	0.41		6,403.04		0.12	0.12	6,442.01
NaturalGas Unmitigated	0.59	5.30	4.21	0.03		0.00	0.41		0.00	0.41		6,403.04		0.12	0.12	6,442.01
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	lb/day										lb/day					
Apartments Low Rise	6409.74	0.07	0.59	0.25	0.00		0.00	0.05		0.00	0.05		754.09		0.01	0.01	758.68
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
General Office Building	9794.79	0.11	0.96	0.81	0.01		0.00	0.07		0.00	0.07		1,152.33		0.02	0.02	1,159.34
Government (Civic Center)	1735.75	0.02	0.17	0.14	0.00		0.00	0.01		0.00	0.01		204.21		0.00	0.00	205.45
Motel	3834.38	0.04	0.38	0.32	0.00		0.00	0.03		0.00	0.03		451.10		0.01	0.01	453.85
Quality Restaurant	31871.7	0.34	3.12	2.62	0.02		0.00	0.24		0.00	0.24		3,749.61		0.07	0.07	3,772.43
Strip Mall	779.472	0.01	0.08	0.06	0.00		0.00	0.01		0.00	0.01		91.70		0.00	0.00	92.26
Total		**0.59**	**5.30**	**4.20**	**0.03**		**0.00**	**0.41**		**0.00**	**0.41**		**6,403.04**		**0.11**	**0.11**	**6,442.01**

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	lb/day										lb/day					
Apartments Low Rise	6.40974	0.07	0.59	0.25	0.00		0.00	0.05		0.00	0.05		754.09		0.01	0.01	758.68
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
General Office Building	9.79479	0.11	0.96	0.81	0.01		0.00	0.07		0.00	0.07		1,152.33		0.02	0.02	1,159.34
Government (Civic Center)	1.73575	0.02	0.17	0.14	0.00		0.00	0.01		0.00	0.01		204.21		0.00	0.00	205.45
Motel	3.83438	0.04	0.38	0.32	0.00		0.00	0.03		0.00	0.03		451.10		0.01	0.01	453.85
Quality Restaurant	31.8717	0.34	3.12	2.62	0.02		0.00	0.24		0.00	0.24		3,749.61		0.07	0.07	3,772.43
Strip Mall	0.779472	0.01	0.08	0.06	0.00		0.00	0.01		0.00	0.01		91.70		0.00	0.00	92.26
Total		**0.59**	**5.30**	**4.20**	**0.03**		**0.00**	**0.41**		**0.00**	**0.41**		**6,403.04**		**0.11**	**0.11**	**6,442.01**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	90.84	1.45	120.69	0.10		0.00	15.93		0.00	15.93	1,803.24	1,651.64		3.61	0.12	3,568.43
Unmitigated	90.84	1.45	120.69	0.10		0.00	15.93		0.00	15.93	1,803.24	1,651.64		3.61	0.12	3,568.43
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	4.10					0.00	0.00		0.00	0.00						0.00
Consumer Products	12.56					0.00	0.00		0.00	0.00						0.00
Hearth	73.84	1.31	109.05	0.10		0.00	15.87		0.00	15.86	1,803.24	1,630.59		3.59	0.12	3,546.96
Landscaping	0.35	0.13	11.64	0.00		0.00	0.06		0.00	0.06		21.05		0.02		21.47
Total	**90.85**	**1.44**	**120.69**	**0.10**		**0.00**	**15.93**		**0.00**	**15.92**	**1,803.24**	**1,651.64**		**3.61**	**0.12**	**3,568.43**

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	4.10					0.00	0.00		0.00	0.00						0.00
Consumer Products	12.56					0.00	0.00		0.00	0.00						0.00
Hearth	73.84	1.31	109.05	0.10		0.00	15.87		0.00	15.86	1,803.24	1,630.59		3.59	0.12	3,546.96
Landscaping	0.35	0.13	11.64	0.00		0.00	0.06		0.00	0.06		21.05		0.02		21.47
Total	**90.85**	**1.44**	**120.69**	**0.10**		**0.00**	**15.93**		**0.00**	**15.92**	**1,803.24**	**1,651.64**		**3.61**	**0.12**	**3,568.43**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

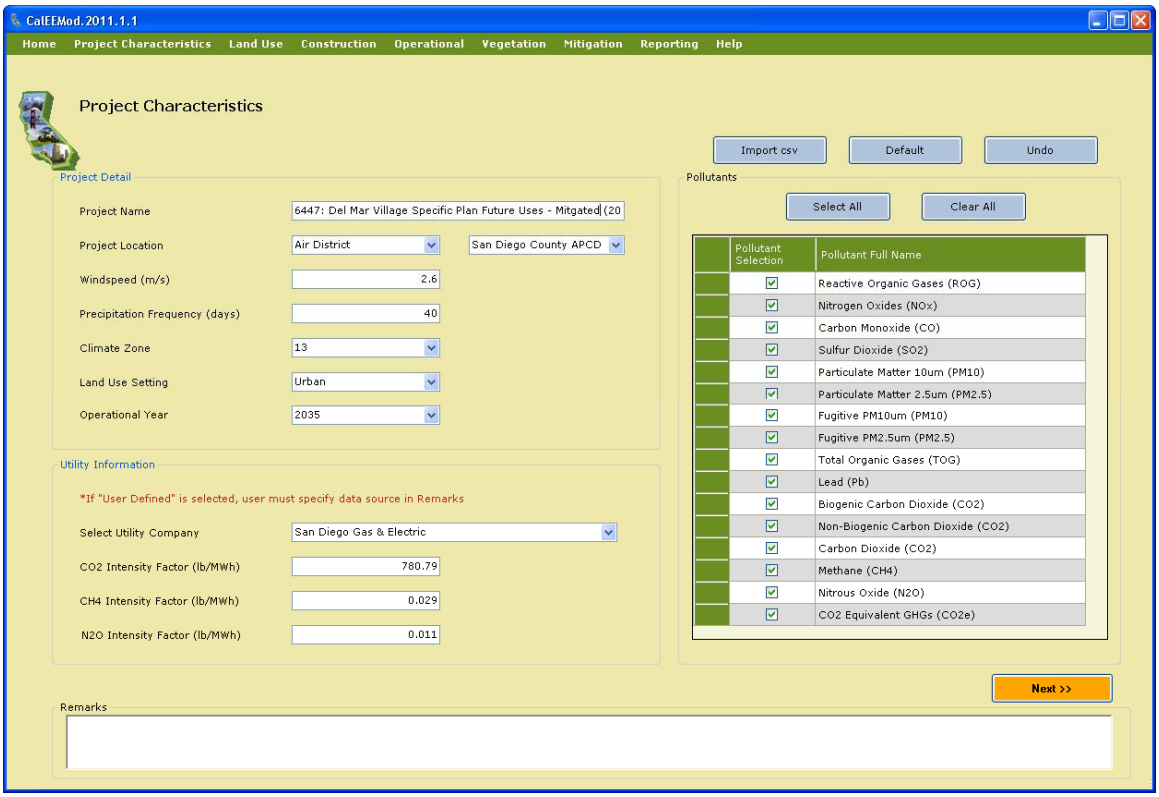
9.0 Vegetation

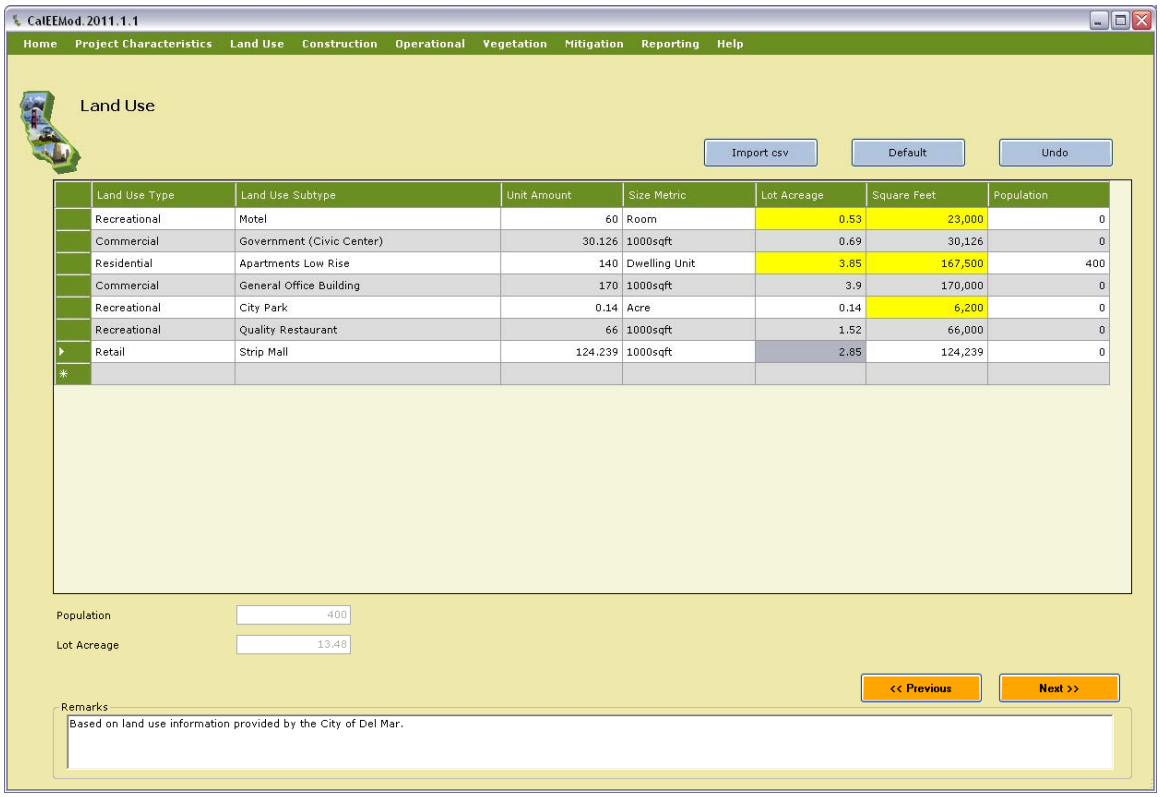
ATTACHMENT 4

CalEEMod Input, 2035 Plan—Mitigated

CalEEMod Input

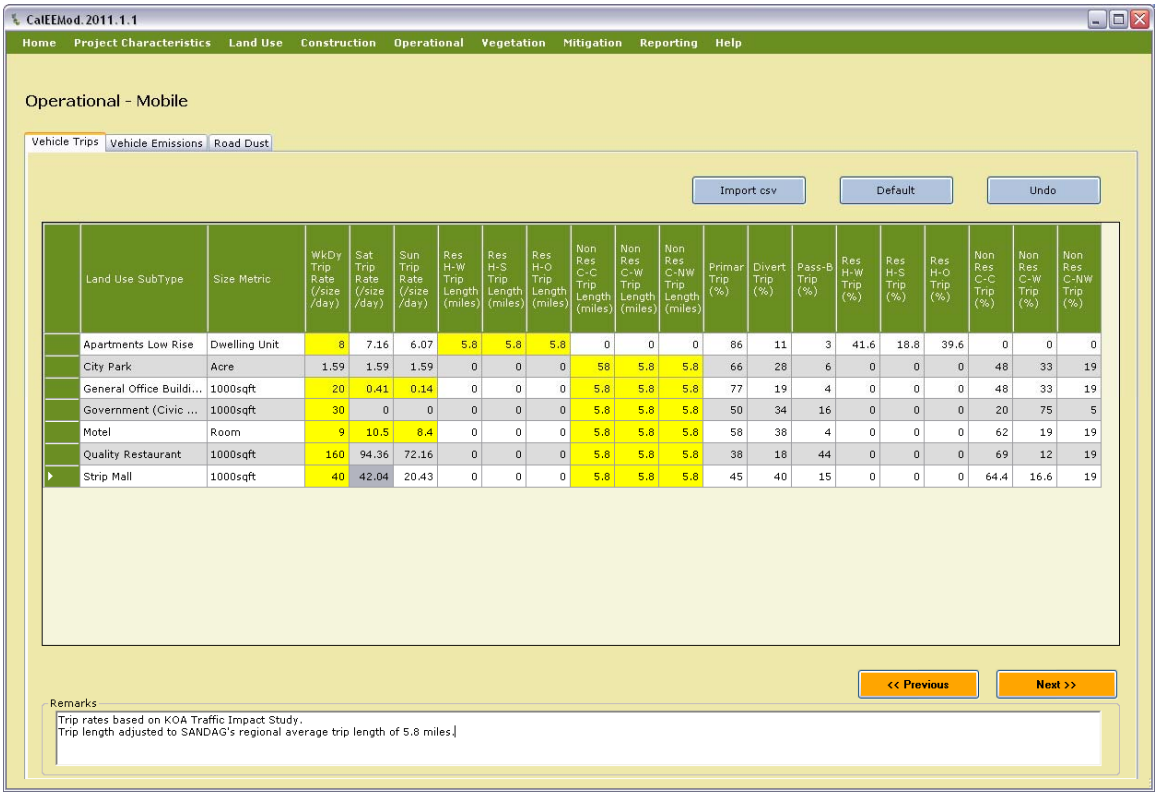
2035 Proposed Plan Uses – Mitigated





CalEEMod Input

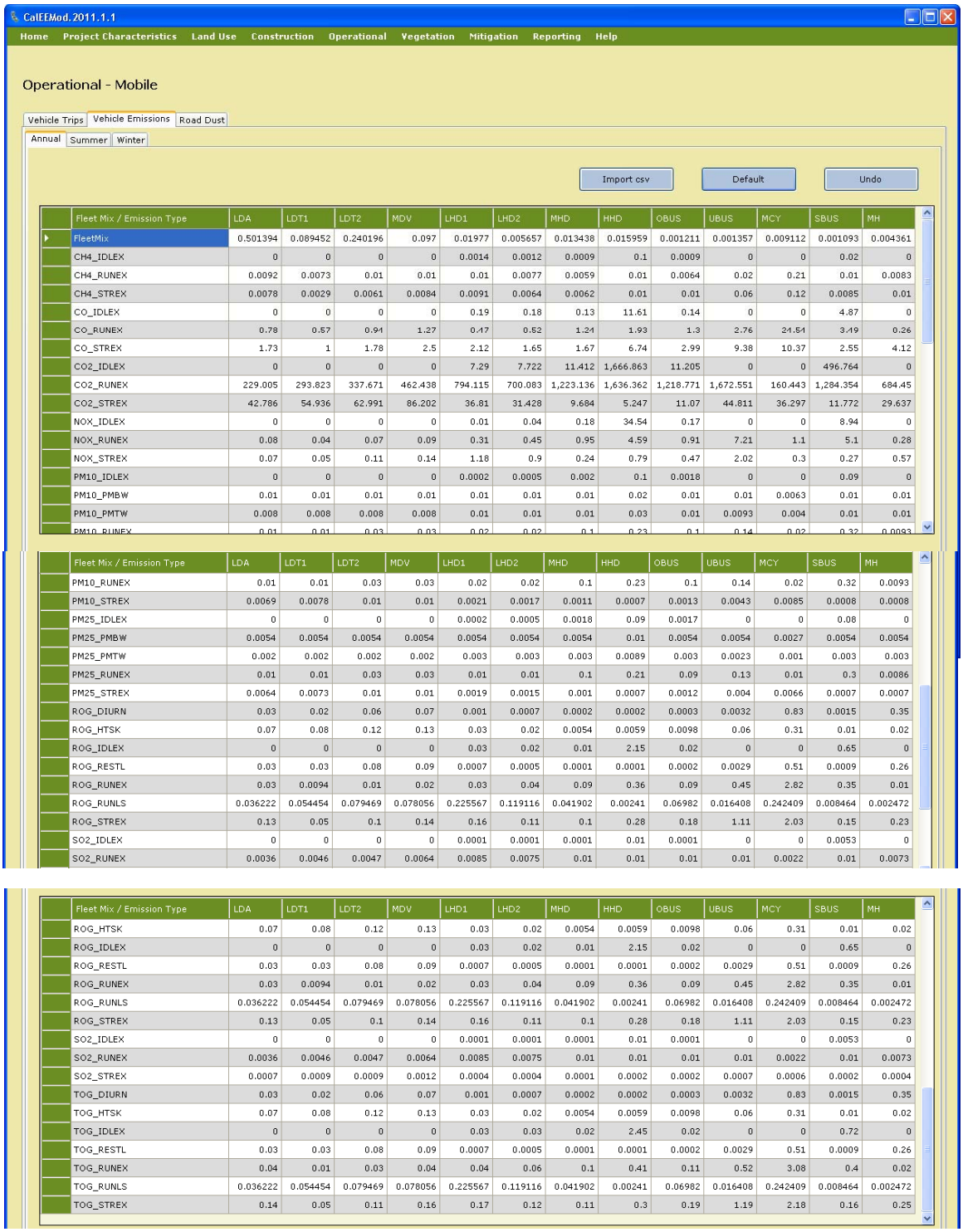
2035 Proposed Plan Uses – Mitigated



	Land Use SubType	Size Metric	WkDy Trip Rate (/size /day)	Sat Trip Rate (/size /day)	Sun Trip Rate (/size /day)	Res H-W Trip Length (miles)	Res H-S Trip Length (miles)	Res H-O Trip Length (miles)	Non Res C-C Trip Length (miles)	Non Res C-W Trip Length (miles)	Non Res C-NW Trip Length (miles)	Primar Trip (%)	Divert Trip (%)	Pass-B Trip (%)	Res H-W Trip (%)	Res H-S Trip (%)	Res H-O Trip (%)	Non Res C-C Trip (%)	Non Res C-W Trip (%)	Non Res C-NW Trip (%)
	Apartments Low Rise	Dwelling Unit	8	7.16	6.07	5.8	5.8	5.8	0	0	0	86	11	3	41.6	18.8	39.6	0	0	0
	City Park	Acre	1.59	1.59	1.59	0	0	0	58	5.8	5.8	66	28	6	0	0	0	48	33	19
	General Office Buildi...	1000sqft	20	0.41	0.14	0	0	0	5.8	5.8	5.8	77	19	4	0	0	0	48	33	19
	Government (Civic ...	1000sqft	30	0	0	0	0	0	5.8	5.8	5.8	50	34	16	0	0	0	20	75	5
	Motel	Room	9	10.5	8.4	0	0	0	5.8	5.8	5.8	58	38	4	0	0	0	62	19	19
	Quality Restaurant	1000sqft	160	94.36	72.16	0	0	0	5.8	5.8	5.8	38	18	44	0	0	0	69	12	19
▶	Strip Mall	1000sqft	40	42.04	20.43	0	0	0	5.8	5.8	5.8	45	40	15	0	0	0	64.4	16.6	19

CalEEMod Input

2035 Proposed Plan Uses – Mitigated



Fleet Mix / Emission Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
FleetMix	0.501394	0.089452	0.240196	0.097	0.01977	0.005657	0.013438	0.015959	0.001211	0.001357	0.009112	0.001093	0.004361
CH4_IDLEX	0	0	0	0	0.0014	0.0012	0.0009	0.1	0.0009	0	0	0.02	0
CH4_RUNEX	0.0092	0.0073	0.01	0.01	0.01	0.0077	0.0059	0.01	0.0064	0.02	0.21	0.01	0.0083
CH4_STREX	0.0078	0.0029	0.0061	0.0084	0.0091	0.0064	0.0062	0.01	0.01	0.06	0.12	0.0085	0.01
CO_IDLEX	0	0	0	0	0.19	0.18	0.13	11.61	0.14	0	0	4.87	0
CO_RUNEX	0.78	0.57	0.94	1.27	0.47	0.52	1.24	1.93	1.3	2.76	24.54	3.49	0.26
CO_STREX	1.73	1	1.78	2.5	2.12	1.65	1.67	6.74	2.99	9.38	10.37	2.55	4.12
CO2_IDLEX	0	0	0	0	7.29	7.722	11.412	1,666.863	11.205	0	0	496.764	0
CO2_RUNEX	229.005	293.823	337.671	462.438	794.115	700.083	1,223.136	1,636.362	1,218.771	1,672.551	160.443	1,284.354	684.45
CO2_STREX	42.786	54.936	62.991	86.202	36.81	31.428	9.684	5.247	11.07	44.811	36.297	11.772	29.637
NOX_IDLEX	0	0	0	0	0.01	0.04	0.18	34.54	0.17	0	0	8.94	0
NOX_RUNEX	0.08	0.04	0.07	0.09	0.31	0.45	0.95	4.59	0.91	7.21	1.1	5.1	0.28
NOX_STREX	0.07	0.05	0.11	0.14	1.18	0.9	0.24	0.79	0.47	2.02	0.3	0.27	0.57
PM10_IDLEX	0	0	0	0	0.0002	0.0005	0.002	0.1	0.0018	0	0	0.09	0
PM10_PMBW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.0063	0.01	0.01
PM10_PMTW	0.008	0.008	0.008	0.008	0.01	0.01	0.01	0.03	0.01	0.0093	0.004	0.01	0.01
PM10_RUNEX	0.01	0.01	0.03	0.03	0.02	0.02	0.1	0.23	0.1	0.14	0.02	0.32	0.0093
PM10_STREX	0.0069	0.0078	0.01	0.01	0.0021	0.0017	0.0011	0.0007	0.0013	0.0043	0.0085	0.0008	0.0008
PM25_IDLEX	0	0	0	0	0.0002	0.0005	0.0018	0.09	0.0017	0	0	0.08	0
PM25_PMBW	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.01	0.0054	0.0054	0.0027	0.0054	0.0054
PM25_PMTW	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.0089	0.003	0.0023	0.001	0.003	0.003
PM25_RUNEX	0.01	0.01	0.03	0.03	0.01	0.01	0.1	0.21	0.09	0.13	0.01	0.3	0.0086
PM25_STREX	0.0064	0.0073	0.01	0.01	0.0019	0.0015	0.001	0.0007	0.0012	0.004	0.0066	0.0007	0.0007
ROG_DIURN	0.03	0.02	0.06	0.07	0.001	0.0007	0.0002	0.0002	0.0003	0.0032	0.83	0.0015	0.35
ROG_HTSK	0.07	0.08	0.12	0.13	0.03	0.02	0.0054	0.0059	0.0098	0.06	0.31	0.01	0.02
ROG_IDLEX	0	0	0	0	0.03	0.02	0.01	2.15	0.02	0	0	0.65	0
ROG_RESTL	0.03	0.03	0.08	0.09	0.0007	0.0005	0.0001	0.0001	0.0002	0.0029	0.51	0.0009	0.26
ROG_RUNEX	0.03	0.0094	0.01	0.02	0.03	0.04	0.09	0.36	0.09	0.45	2.82	0.35	0.01
ROG_RUNLS	0.036222	0.054454	0.079469	0.078056	0.225567	0.119116	0.041902	0.00241	0.06982	0.016408	0.242409	0.008464	0.002472
ROG_STREX	0.13	0.05	0.1	0.14	0.16	0.11	0.1	0.28	0.18	1.11	2.03	0.15	0.23
SO2_IDLEX	0	0	0	0	0.0001	0.0001	0.0001	0.01	0.0001	0	0	0.0053	0
SO2_RUNEX	0.0036	0.0046	0.0047	0.0064	0.0085	0.0075	0.01	0.01	0.01	0.01	0.0022	0.01	0.0073
ROG_HTSK	0.07	0.08	0.12	0.13	0.03	0.02	0.0054	0.0059	0.0098	0.06	0.31	0.01	0.02
ROG_IDLEX	0	0	0	0	0.03	0.02	0.01	2.15	0.02	0	0	0.65	0
ROG_RESTL	0.03	0.03	0.08	0.09	0.0007	0.0005	0.0001	0.0001	0.0002	0.0029	0.51	0.0009	0.26
ROG_RUNEX	0.03	0.0094	0.01	0.02	0.03	0.04	0.09	0.36	0.09	0.45	2.82	0.35	0.01
ROG_RUNLS	0.036222	0.054454	0.079469	0.078056	0.225567	0.119116	0.041902	0.00241	0.06982	0.016408	0.242409	0.008464	0.002472
ROG_STREX	0.13	0.05	0.1	0.14	0.16	0.11	0.1	0.28	0.18	1.11	2.03	0.15	0.23
SO2_IDLEX	0	0	0	0	0.0001	0.0001	0.0001	0.01	0.0001	0	0	0.0053	0
SO2_RUNEX	0.0036	0.0046	0.0047	0.0064	0.0085	0.0075	0.01	0.01	0.01	0.01	0.0022	0.01	0.0073
SO2_STREX	0.0007	0.0009	0.0009	0.0012	0.0004	0.0004	0.0001	0.0002	0.0002	0.0007	0.0006	0.0002	0.0004
TOG_DIURN	0.03	0.02	0.06	0.07	0.001	0.0007	0.0002	0.0002	0.0003	0.0032	0.83	0.0015	0.35
TOG_HTSK	0.07	0.08	0.12	0.13	0.03	0.02	0.0054	0.0059	0.0098	0.06	0.31	0.01	0.02
TOG_IDLEX	0	0	0	0	0.03	0.03	0.02	2.45	0.02	0	0	0.72	0
TOG_RESTL	0.03	0.03	0.08	0.09	0.0007	0.0005	0.0001	0.0001	0.0002	0.0029	0.51	0.0009	0.26
TOG_RUNEX	0.04	0.01	0.03	0.04	0.04	0.06	0.1	0.41	0.11	0.52	3.08	0.4	0.02
TOG_RUNLS	0.036222	0.054454	0.079469	0.078056	0.225567	0.119116	0.041902	0.00241	0.06982	0.016408	0.242409	0.008464	0.002472
TOG_STREX	0.14	0.05	0.11	0.16	0.17	0.12	0.11	0.3	0.19	1.19	2.18	0.16	0.25

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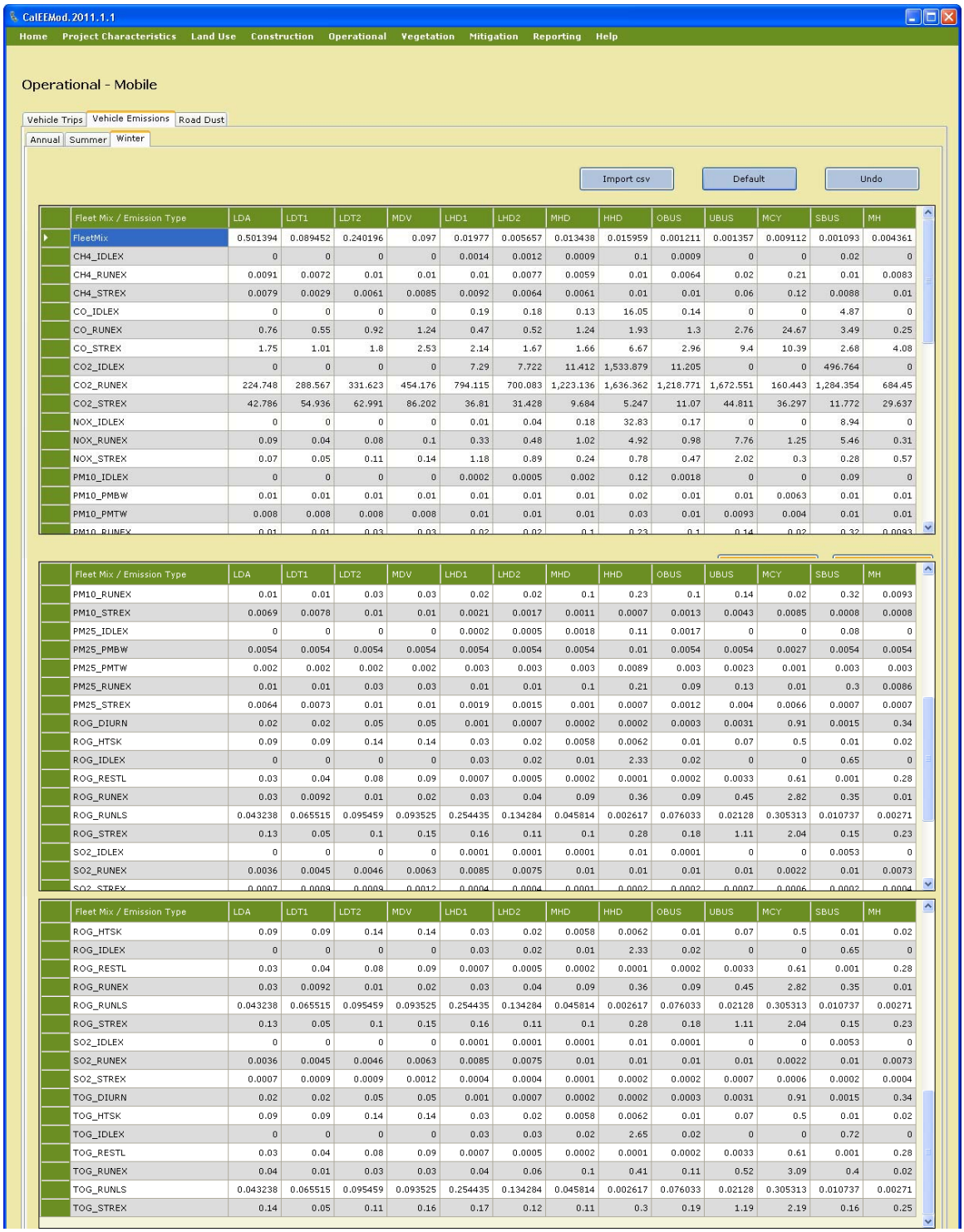
Fleet Mix / Emission Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
FleetMix	0.501394	0.089452	0.240196	0.097	0.01977	0.005657	0.013438	0.015959	0.001211	0.001357	0.009112	0.001093	0.004361
CH4_IDLEX	0	0	0	0	0.0014	0.0012	0.0009	0.09	0.0009	0	0	0.02	0
CH4_RUNEX	0.0097	0.0079	0.01	0.01	0.01	0.0078	0.006	0.01	0.0065	0.02	0.21	0.01	0.0085
CH4_STREX	0.0065	0.0024	0.0051	0.007	0.008	0.0056	0.0055	0.01	0.0092	0.05	0.1	0.0078	0.01
CO_IDLEX	0	0	0	0	0.19	0.18	0.13	8.44	0.14	0	0	4.87	0
CO_RUNEX	0.87	0.64	1.06	1.42	0.48	0.52	1.24	1.94	1.31	2.8	23.71	3.51	0.26
CO_STREX	1.31	0.75	1.35	1.9	1.67	1.31	1.35	5.44	2.41	7.94	8.96	2.18	3.33
CO2_IDLEX	0	0	0	0	7.29	7.722	11.412	1,761.858	11.205	0	0	496.764	0
CO2_RUNEX	244.827	313.434	360.234	493.254	794.115	700.083	1,223.136	1,636.362	1,218.771	1,672.551	160.443	1,284.354	684.45
CO2_STREX	42.786	54.936	62.991	86.202	36.81	31.428	9.684	5.247	11.07	44.811	36.297	11.772	29.637
NOX_IDLEX	0	0	0	0	0.01	0.04	0.18	35.76	0.17	0	0	8.94	0
NOX_RUNEX	0.08	0.04	0.07	0.09	0.32	0.46	0.98	4.75	0.94	7.46	1.12	5.27	0.29
NOX_STREX	0.07	0.04	0.1	0.13	1.14	0.86	0.23	0.75	0.45	1.93	0.29	0.26	0.55
PM10_IDLEX	0	0	0	0	0.0002	0.0005	0.002	0.08	0.0018	0	0	0.09	0
PM10_PMBW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.0063	0.01	0.01
PM10_PMTW	0.008	0.008	0.008	0.008	0.01	0.01	0.01	0.03	0.01	0.0093	0.004	0.01	0.01

Fleet Mix / Emission Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
PM10_RUNEX	0.01	0.01	0.03	0.03	0.02	0.02	0.1	0.23	0.1	0.14	0.02	0.32	0.0093
PM10_STREX	0.0069	0.0078	0.01	0.01	0.0021	0.0017	0.0011	0.0007	0.0013	0.0043	0.0085	0.0008	0.0008
PM25_IDLEX	0	0	0	0	0.0002	0.0005	0.0018	0.07	0.0017	0	0	0.08	0
PM25_PMBW	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.01	0.0054	0.0054	0.0027	0.0054	0.0054
PM25_PMTW	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.0089	0.003	0.0023	0.001	0.003	0.003
PM25_RUNEX	0.01	0.01	0.03	0.03	0.01	0.01	0.1	0.21	0.09	0.13	0.01	0.3	0.0086
PM25_STREX	0.0064	0.0073	0.01	0.01	0.0019	0.0015	0.001	0.0007	0.0012	0.004	0.0066	0.0007	0.0007
ROG_DIURN	0.04	0.04	0.1	0.1	0.0015	0.0011	0.0003	0.0003	0.0005	0.0048	1.41	0.0023	0.55
ROG_HTSK	0.08	0.09	0.13	0.13	0.03	0.02	0.0055	0.006	0.01	0.06	0.38	0.01	0.02
ROG_IDLEX	0	0	0	0	0.03	0.02	0.01	2.02	0.02	0	0	0.65	0
ROG_RESTL	0.04	0.05	0.12	0.14	0.0011	0.0008	0.0002	0.0002	0.0003	0.0047	1.07	0.0015	0.41
ROG_RUNEX	0.03	0.01	0.01	0.02	0.03	0.04	0.09	0.36	0.09	0.46	2.76	0.36	0.01
ROG_RUNLS	0.033682	0.050511	0.073761	0.072537	0.21634	0.11408	0.040724	0.002382	0.068021	0.014609	0.21992	0.007453	0.002391
ROG_STREX	0.11	0.04	0.08	0.12	0.14	0.09	0.09	0.25	0.16	1.01	1.79	0.13	0.2
SO2_IDLEX	0	0	0	0	0.0001	0.0001	0.0001	0.01	0.0001	0	0	0.0053	0
SO2_RUNEX	0.0039	0.0049	0.005	0.0068	0.0085	0.0075	0.01	0.01	0.01	0.01	0.0022	0.01	0.0073
SO2_STREX	0.0007	0.0009	0.0009	0.0012	0.0004	0.0004	0.0001	0.0001	0.0002	0.0006	0.0006	0.0002	0.0004

Fleet Mix / Emission Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
ROG_HTSK	0.08	0.09	0.13	0.13	0.03	0.02	0.0055	0.006	0.01	0.06	0.38	0.01	0.02
ROG_IDLEX	0	0	0	0	0.03	0.02	0.01	2.02	0.02	0	0	0.65	0
ROG_RESTL	0.04	0.05	0.12	0.14	0.0011	0.0008	0.0002	0.0002	0.0003	0.0047	1.07	0.0015	0.41
ROG_RUNEX	0.03	0.01	0.01	0.02	0.03	0.04	0.09	0.36	0.09	0.46	2.76	0.36	0.01
ROG_RUNLS	0.033682	0.050511	0.073761	0.072537	0.21634	0.11408	0.040724	0.002382	0.068021	0.014609	0.21992	0.007453	0.002391
ROG_STREX	0.11	0.04	0.08	0.12	0.14	0.09	0.09	0.25	0.16	1.01	1.79	0.13	0.2
SO2_IDLEX	0	0	0	0	0.0001	0.0001	0.0001	0.01	0.0001	0	0	0.0053	0
SO2_RUNEX	0.0039	0.0049	0.005	0.0068	0.0085	0.0075	0.01	0.01	0.01	0.01	0.0022	0.01	0.0073
SO2_STREX	0.0007	0.0009	0.0009	0.0012	0.0004	0.0004	0.0001	0.0001	0.0002	0.0006	0.0006	0.0002	0.0004
TOG_DIURN	0.04	0.04	0.1	0.1	0.0015	0.0011	0.0003	0.0003	0.0005	0.0048	1.41	0.0023	0.55
TOG_HTSK	0.08	0.09	0.13	0.13	0.03	0.02	0.0055	0.006	0.01	0.06	0.38	0.01	0.02
TOG_IDLEX	0	0	0	0	0.03	0.03	0.02	2.3	0.02	0	0	0.72	0
TOG_RESTL	0.04	0.05	0.12	0.14	0.0011	0.0008	0.0002	0.0002	0.0003	0.0047	1.07	0.0015	0.41
TOG_RUNEX	0.04	0.01	0.03	0.04	0.05	0.06	0.1	0.41	0.11	0.52	3.02	0.41	0.02
TOG_RUNLS	0.033682	0.050511	0.073761	0.072537	0.21634	0.11408	0.040724	0.002382	0.068021	0.014609	0.21992	0.007453	0.002391
TOG_STREX	0.12	0.04	0.09	0.13	0.15	0.1	0.1	0.27	0.17	1.08	1.91	0.14	0.22

CalEEMod Input

2035 Proposed Plan Uses – Mitigated



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Operational - Mobile

Vehicle Trips | Vehicle Emissions | Road Dust

Annual | Summer | Winter

Import csv | Default | Undo

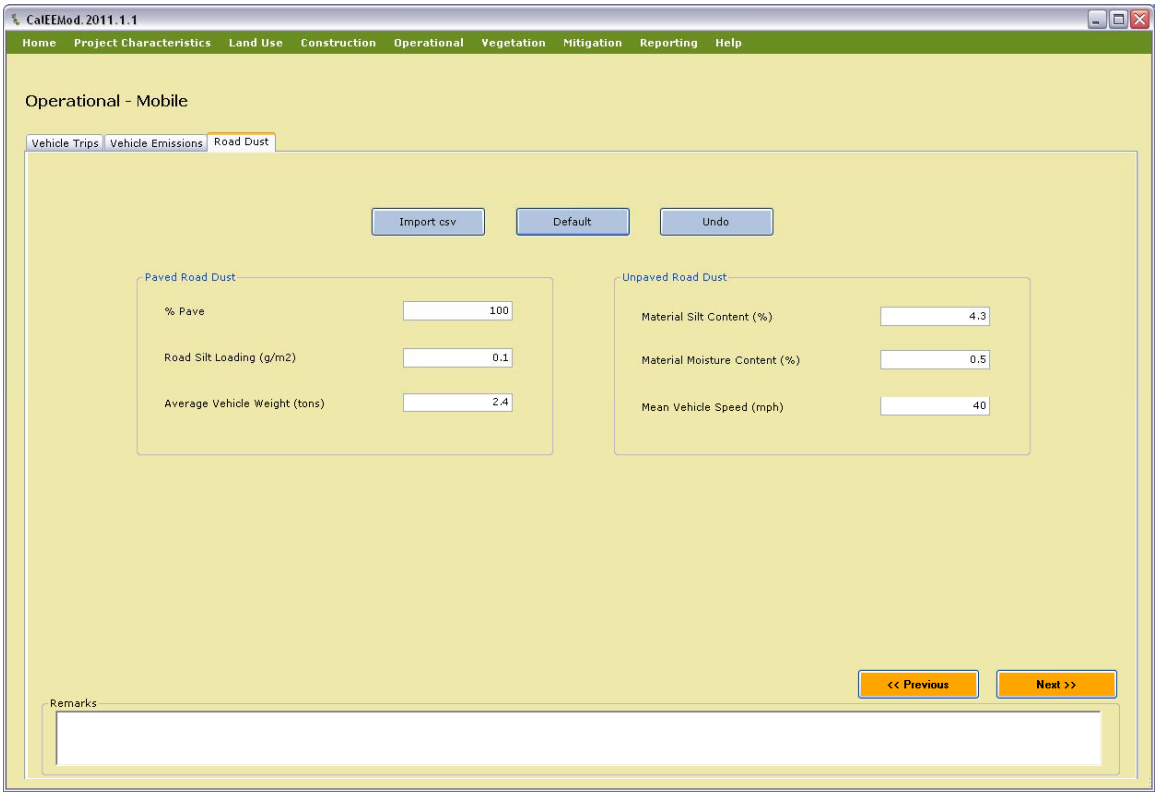
Fleet Mix / Emission Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
FleetMix	0.501394	0.089452	0.240196	0.097	0.01977	0.005657	0.013438	0.015959	0.001211	0.001357	0.009112	0.001093	0.004361
CH4_IDLEX	0	0	0	0	0.0014	0.0012	0.0009	0.1	0.0009	0	0	0.02	0
CH4_RUNEX	0.0091	0.0072	0.01	0.01	0.01	0.0077	0.0059	0.01	0.0064	0.02	0.21	0.01	0.0083
CH4_STREX	0.0079	0.0029	0.0061	0.0085	0.0092	0.0064	0.0061	0.01	0.01	0.06	0.12	0.0088	0.01
CO_IDLEX	0	0	0	0	0.19	0.18	0.13	16.05	0.14	0	0	4.87	0
CO_RUNEX	0.76	0.55	0.92	1.24	0.47	0.52	1.24	1.93	1.3	2.76	24.67	3.49	0.25
CO_STREX	1.75	1.01	1.8	2.53	2.14	1.67	1.66	6.67	2.96	9.4	10.39	2.68	4.08
CO2_IDLEX	0	0	0	0	7.29	7.722	11.412	1,533.879	11.205	0	0	496.764	0
CO2_RUNEX	224.748	288.567	331.623	454.176	794.115	700.083	1,223.136	1,636.362	1,218.771	1,672.551	160.443	1,284.354	684.45
CO2_STREX	42.786	54.936	62.991	86.202	36.81	31.428	9.684	5.247	11.07	44.811	36.297	11.772	29.637
NOX_IDLEX	0	0	0	0	0.01	0.04	0.18	32.83	0.17	0	0	8.94	0
NOX_RUNEX	0.09	0.04	0.08	0.1	0.33	0.48	1.02	4.92	0.98	7.76	1.25	5.46	0.31
NOX_STREX	0.07	0.05	0.11	0.14	1.18	0.89	0.24	0.78	0.47	2.02	0.3	0.28	0.57
PM10_IDLEX	0	0	0	0	0.0002	0.0005	0.002	0.12	0.0018	0	0	0.09	0
PM10_PMBW	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.0063	0.01	0.01
PM10_PMTW	0.008	0.008	0.008	0.008	0.01	0.01	0.01	0.03	0.01	0.0093	0.004	0.01	0.01
PM10_RUNEX	0.01	0.01	0.03	0.03	0.02	0.02	0.1	0.23	0.1	0.14	0.02	0.32	0.0093

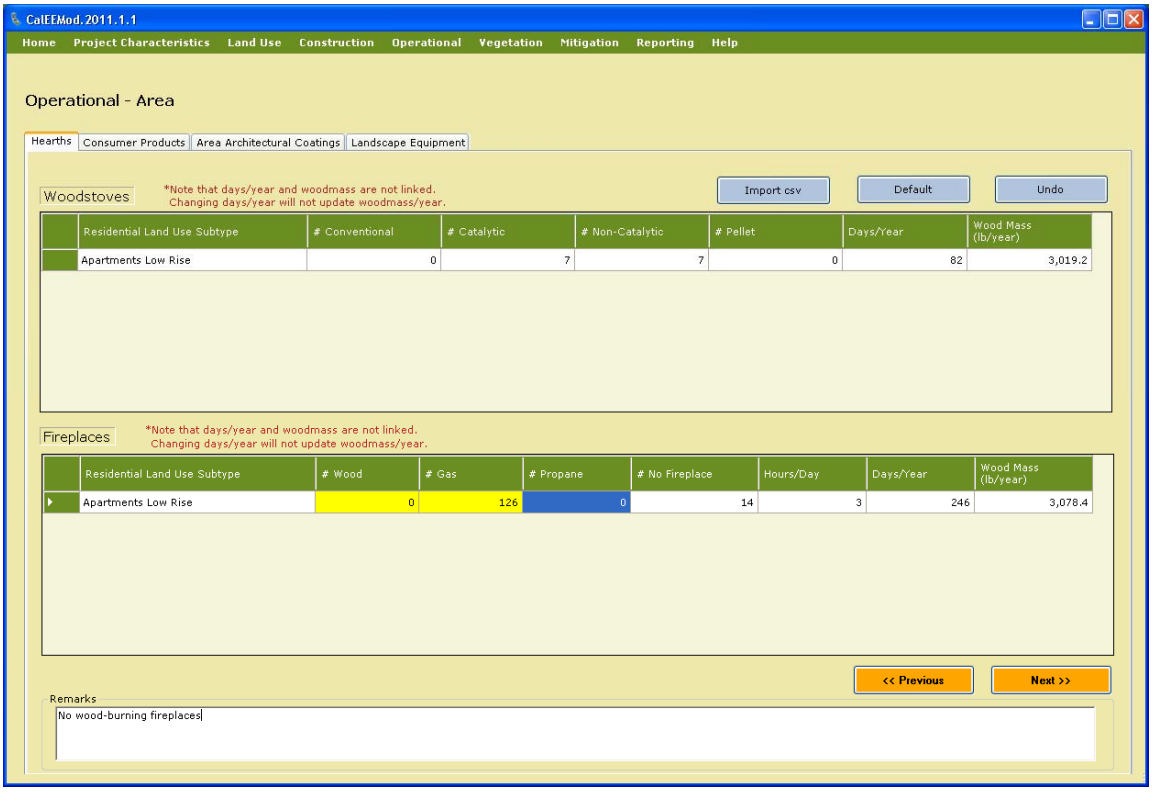
Fleet Mix / Emission Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
PM10_RUNEX	0.01	0.01	0.03	0.03	0.02	0.02	0.1	0.23	0.1	0.14	0.02	0.32	0.0093
PM10_STREX	0.0069	0.0078	0.01	0.01	0.0021	0.0017	0.0011	0.0007	0.0013	0.0043	0.0085	0.0008	0.0008
PM25_IDLEX	0	0	0	0	0.0002	0.0005	0.0018	0.11	0.0017	0	0	0.08	0
PM25_PMBW	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.01	0.0054	0.0054	0.0027	0.0054	0.0054
PM25_PMTW	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.0089	0.003	0.0023	0.001	0.003	0.003
PM25_RUNEX	0.01	0.01	0.03	0.03	0.01	0.01	0.1	0.21	0.09	0.13	0.01	0.3	0.0086
PM25_STREX	0.0064	0.0073	0.01	0.01	0.0019	0.0015	0.001	0.0007	0.0012	0.004	0.0066	0.0007	0.0007
ROG_DIURN	0.02	0.02	0.05	0.05	0.001	0.0007	0.0002	0.0002	0.0003	0.0031	0.91	0.0015	0.34
ROG_HTSK	0.09	0.09	0.14	0.14	0.03	0.02	0.0058	0.0062	0.01	0.07	0.5	0.01	0.02
ROG_IDLEX	0	0	0	0	0.03	0.02	0.01	2.33	0.02	0	0	0.65	0
ROG_RESTL	0.03	0.04	0.08	0.09	0.0007	0.0005	0.0002	0.0001	0.0002	0.0033	0.61	0.001	0.28
ROG_RUNEX	0.03	0.0092	0.01	0.02	0.03	0.04	0.09	0.36	0.09	0.45	2.82	0.35	0.01
ROG_RUNLS	0.043238	0.065515	0.095459	0.093525	0.254435	0.134284	0.045814	0.002617	0.076033	0.02128	0.305313	0.010737	0.00271
ROG_STREX	0.13	0.05	0.1	0.15	0.16	0.11	0.1	0.28	0.18	1.11	2.04	0.15	0.23
SO2_IDLEX	0	0	0	0	0.0001	0.0001	0.0001	0.01	0.0001	0	0	0.0053	0
SO2_RUNEX	0.0036	0.0045	0.0046	0.0063	0.0085	0.0075	0.01	0.01	0.01	0.01	0.0022	0.01	0.0073
SO2_STREX	0.0007	0.0009	0.0009	0.0012	0.0004	0.0004	0.0001	0.0002	0.0002	0.0007	0.0006	0.0002	0.0004

Fleet Mix / Emission Type	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
ROG_HTSK	0.09	0.09	0.14	0.14	0.03	0.02	0.0058	0.0062	0.01	0.07	0.5	0.01	0.02
ROG_IDLEX	0	0	0	0	0.03	0.02	0.01	2.33	0.02	0	0	0.65	0
ROG_RESTL	0.03	0.04	0.08	0.09	0.0007	0.0005	0.0002	0.0001	0.0002	0.0033	0.61	0.001	0.28
ROG_RUNEX	0.03	0.0092	0.01	0.02	0.03	0.04	0.09	0.36	0.09	0.45	2.82	0.35	0.01
ROG_RUNLS	0.043238	0.065515	0.095459	0.093525	0.254435	0.134284	0.045814	0.002617	0.076033	0.02128	0.305313	0.010737	0.00271
ROG_STREX	0.13	0.05	0.1	0.15	0.16	0.11	0.1	0.28	0.18	1.11	2.04	0.15	0.23
SO2_IDLEX	0	0	0	0	0.0001	0.0001	0.0001	0.01	0.0001	0	0	0.0053	0
SO2_RUNEX	0.0036	0.0045	0.0046	0.0063	0.0085	0.0075	0.01	0.01	0.01	0.01	0.0022	0.01	0.0073
SO2_STREX	0.0007	0.0009	0.0009	0.0012	0.0004	0.0004	0.0001	0.0002	0.0002	0.0007	0.0006	0.0002	0.0004
TOG_DIURN	0.02	0.02	0.05	0.05	0.001	0.0007	0.0002	0.0002	0.0003	0.0031	0.91	0.0015	0.34
TOG_HTSK	0.09	0.09	0.14	0.14	0.03	0.02	0.0058	0.0062	0.01	0.07	0.5	0.01	0.02
TOG_IDLEX	0	0	0	0	0.03	0.03	0.02	2.65	0.02	0	0	0.72	0
TOG_RESTL	0.03	0.04	0.08	0.09	0.0007	0.0005	0.0002	0.0001	0.0002	0.0033	0.61	0.001	0.28
TOG_RUNEX	0.04	0.01	0.03	0.03	0.04	0.06	0.1	0.41	0.11	0.52	3.09	0.4	0.02
TOG_RUNLS	0.043238	0.065515	0.095459	0.093525	0.254435	0.134284	0.045814	0.002617	0.076033	0.02128	0.305313	0.010737	0.00271
TOG_STREX	0.14	0.05	0.11	0.16	0.17	0.12	0.11	0.3	0.19	1.19	2.19	0.16	0.25

CalEEMod Input

2035 Proposed Plan Uses – Mitigated





CalEEMod Input

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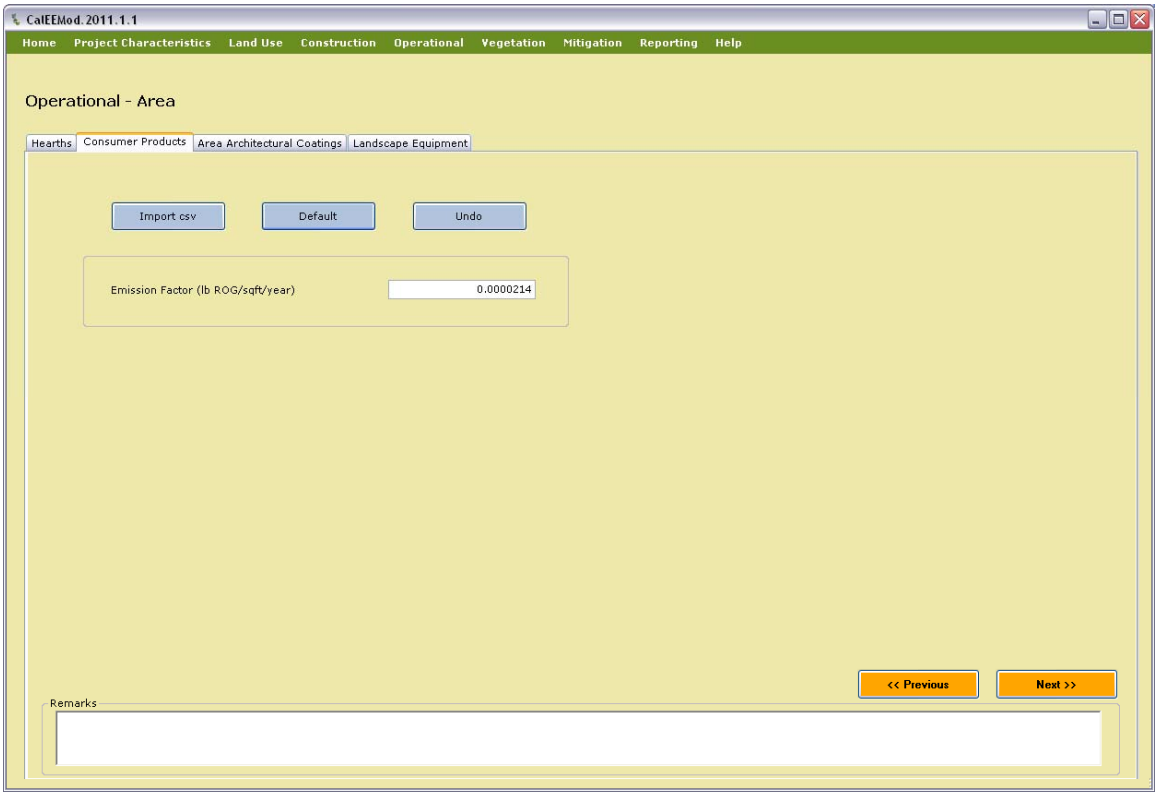

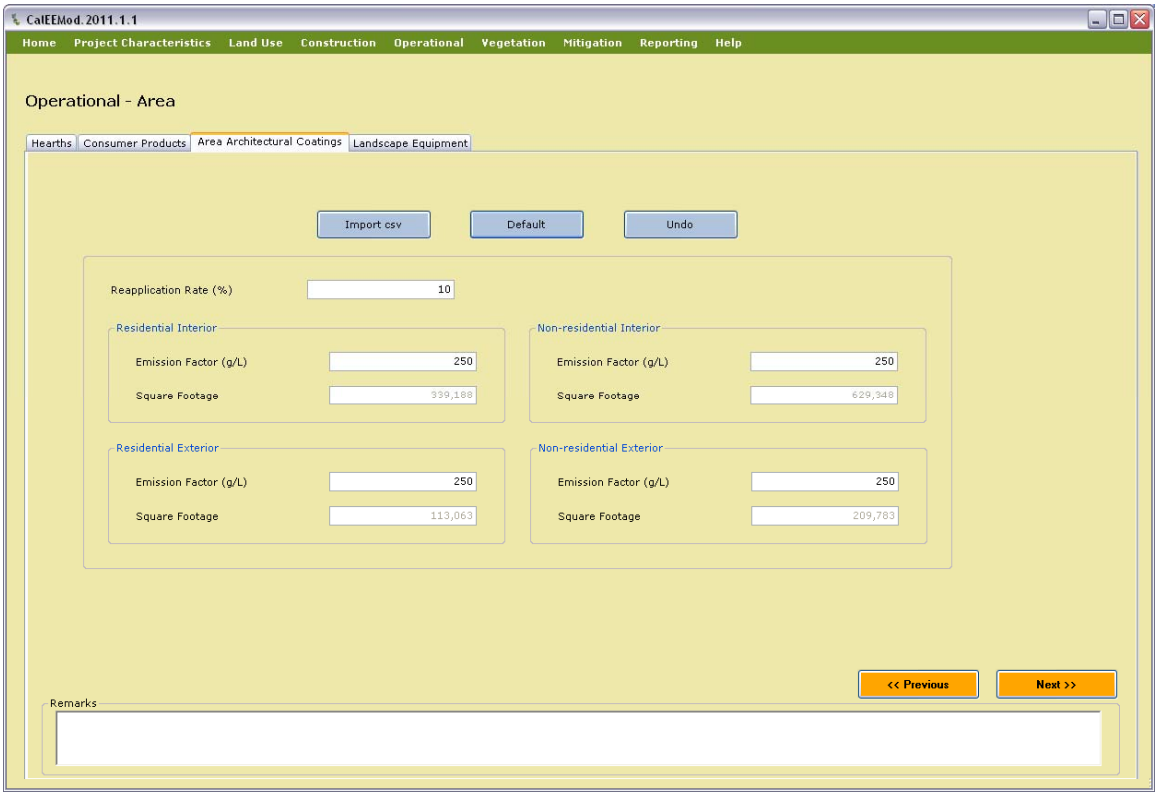

CalEEMod Input

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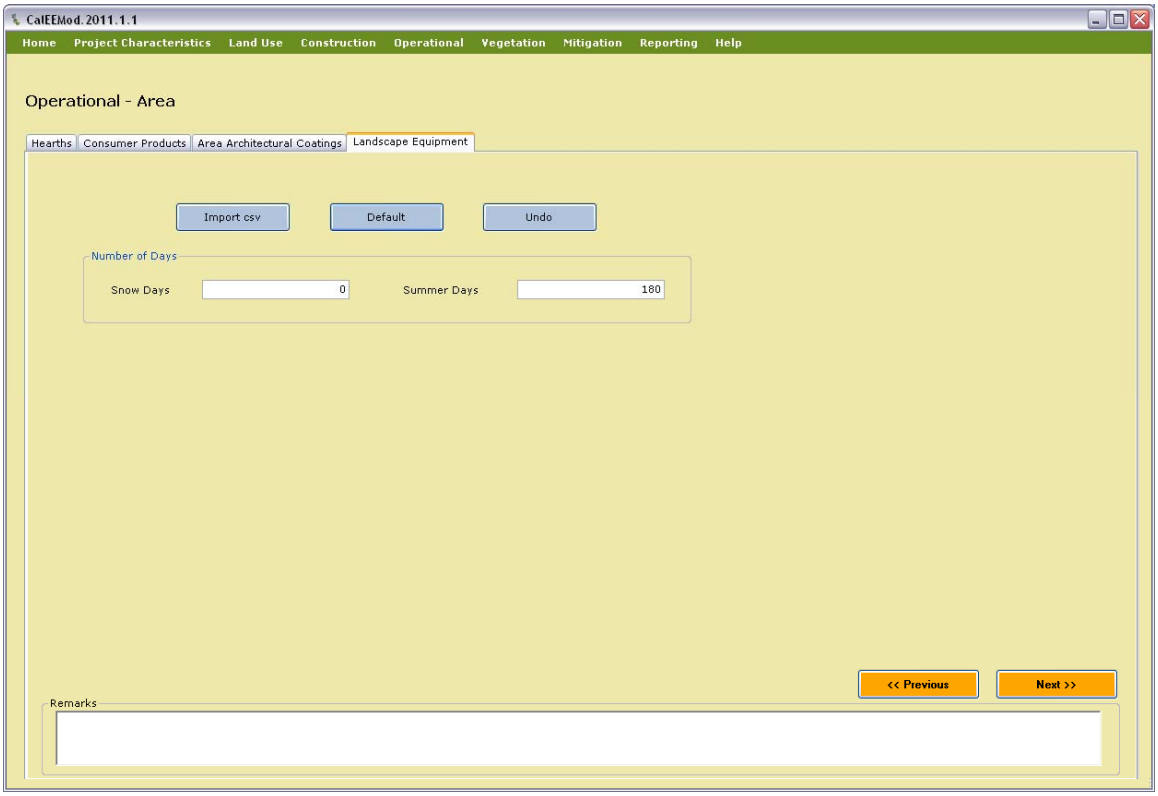

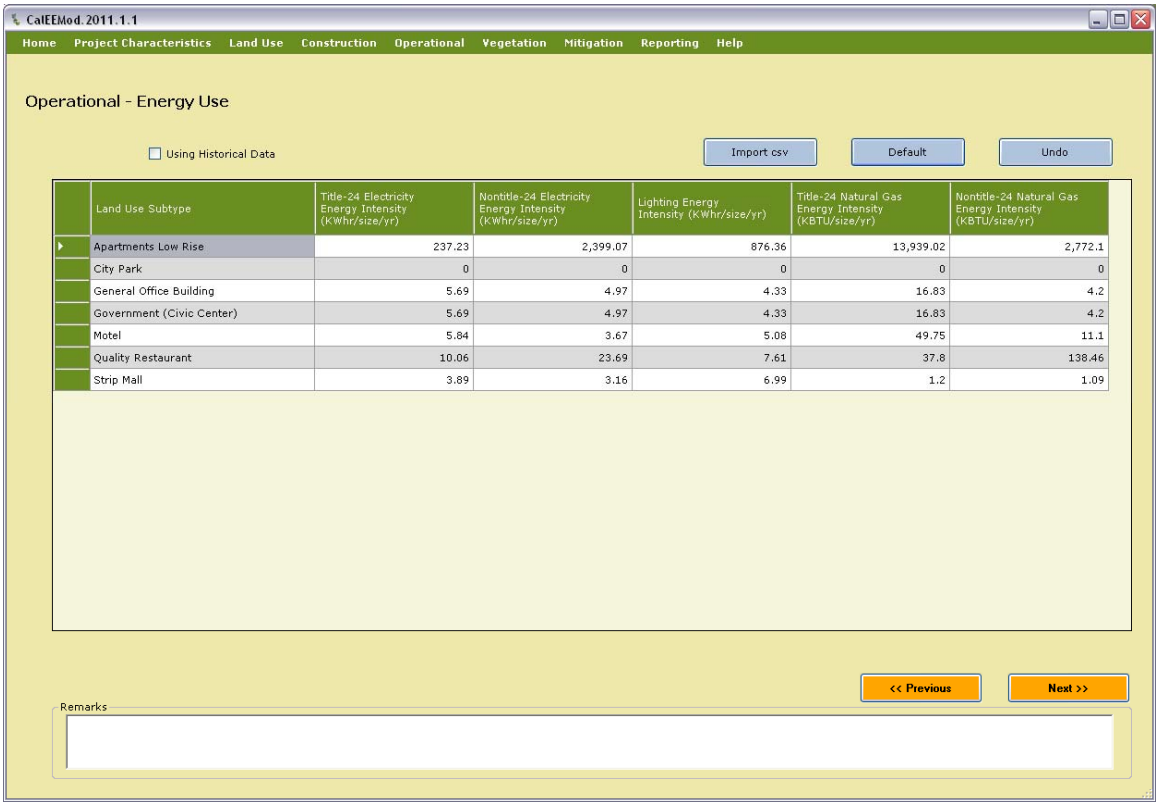

CalEEMod Input

2035 Proposed Plan Uses – Mitigated

CalEEMod.2011.1.1

Home | Project Characteristics | Land Use | Construction | Operational | Vegetation | Mitigation | Reporting | Help

Operational - Water and Wastewater

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	Land Use Subtype	Size Metric	Indoor Water Use (gals/year)	Outdoor Water Use (gals/year)	Electricity Intensity Factor To Supply (kWhr /Mgal)	Electricity Intensity Factor To Treat (kWhr /Mgal)	Electricity Intensity Factor To Distribute (kWhr /Mgal)	Electricity Intensity Factor For Wastewater Treatment (kWhr /Mgal)	Septic Tank (%)	Aerobic (%)	Anaerobic and Facultative Lagoons (%)	Anaerobic Digester with Combustion of Digester Gas (%)	Anaerobic Digestion with Cogeneration from Combustion of Digester Gas (%)
▸	Apartments Low Rise	Dwelling Unit	9,121,563...	5,750,550...	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	City Park	Acre	0	166,807.39	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	General Office Building	1000sqft	30,214,73...	18,518,70...	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	Government (Civic Center)	1000sqft	5,985,616...	3,668,603...	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	Motel	Room	1,522,006.2	169,111.8	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	Quality Restaurant	1000sqft	20,033,22...	1,278,716...	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0
	Strip Mall	1000sqft	9,202,770...	5,640,407...	9,727	111	1,272	1,911	10	84.69	2.14	3.17	0

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Remarks

CalEEMod.2011.1.1

Home | Project Characteristics | Land Use | Construction | Operational | Vegetation | Mitigation | Reporting | Help

Operational - Solid Waste

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	Land Use Subtype	Size Metric	Solid Waste Generation Rate (tons/year)	Landfill No Gas Capture (%)	Landfill Capture Gas Flare (%)	Landfill Capture Gas Energy Recovery (%)
▸	Apartments Low Rise	Dwelling Unit	64.4	6	94	0
	City Park	Acre	0.01	6	94	0
	General Office Building	1000sqft	158.1	6	94	0
	Government (Civic Center)	1000sqft	171.74	6	94	0
	Motel	Room	32.85	6	94	0
	Quality Restaurant	1000sqft	60.23	6	94	0
	Strip Mall	1000sqft	130.45	6	94	0

<< Previous | Next >>

Remarks

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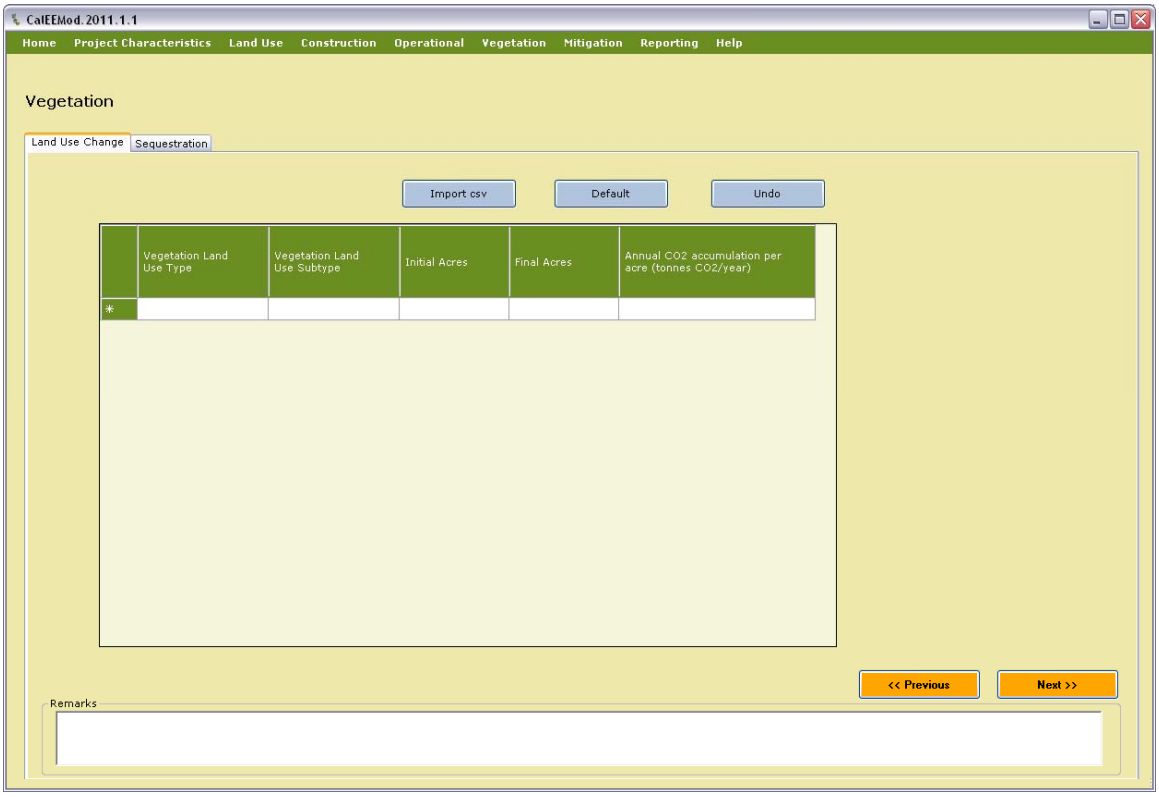
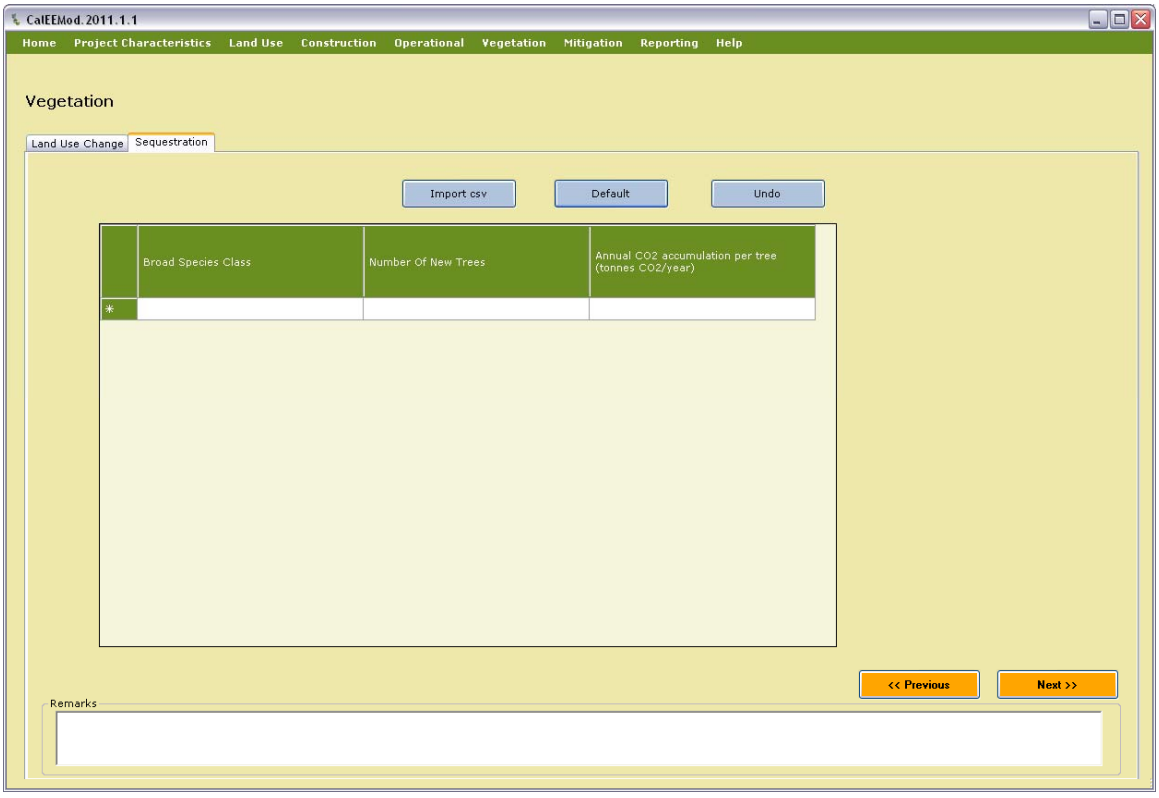
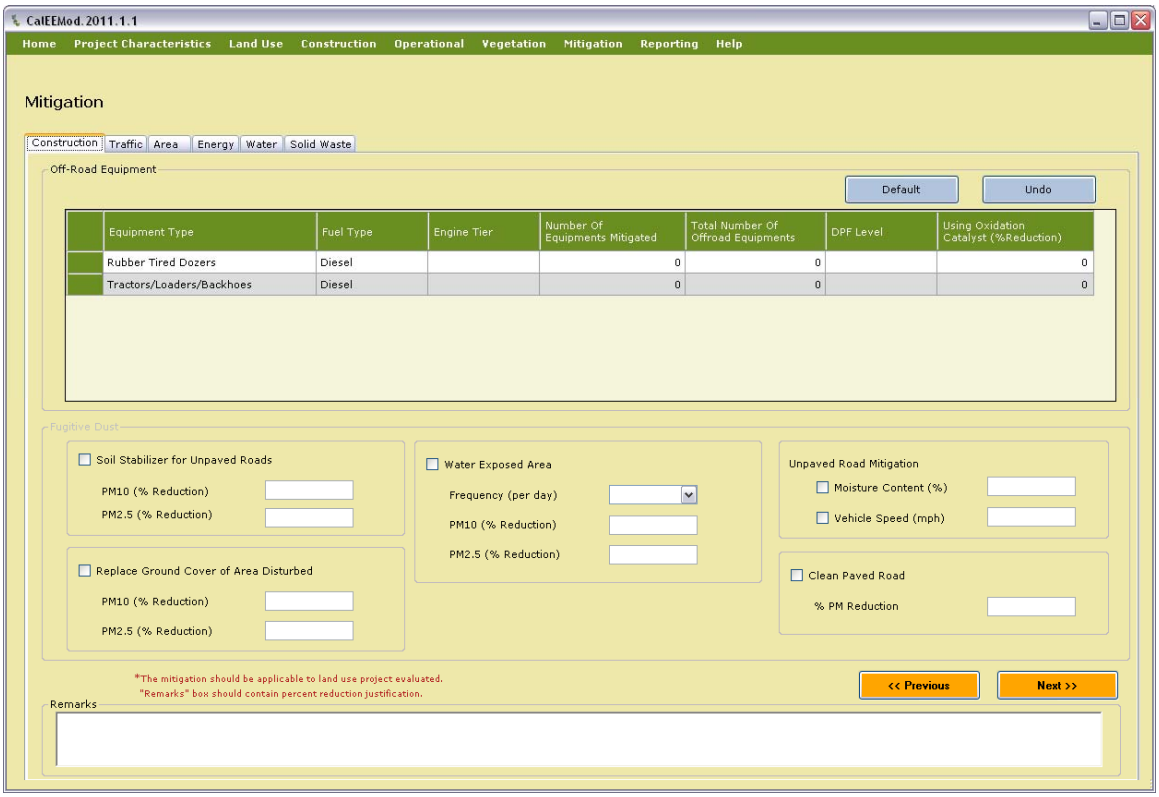
2035 Proposed Plan Uses – Mitigated

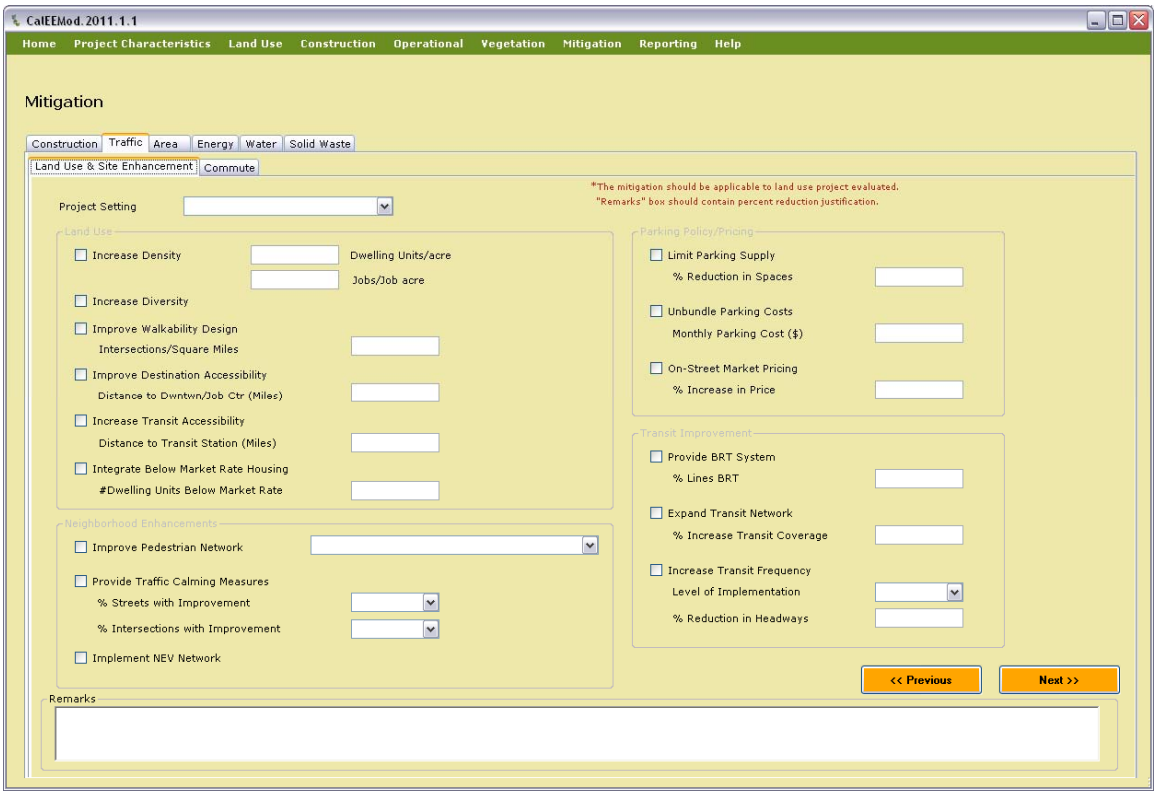




CalEEMod Input

2035 Proposed Plan Uses – Mitigated





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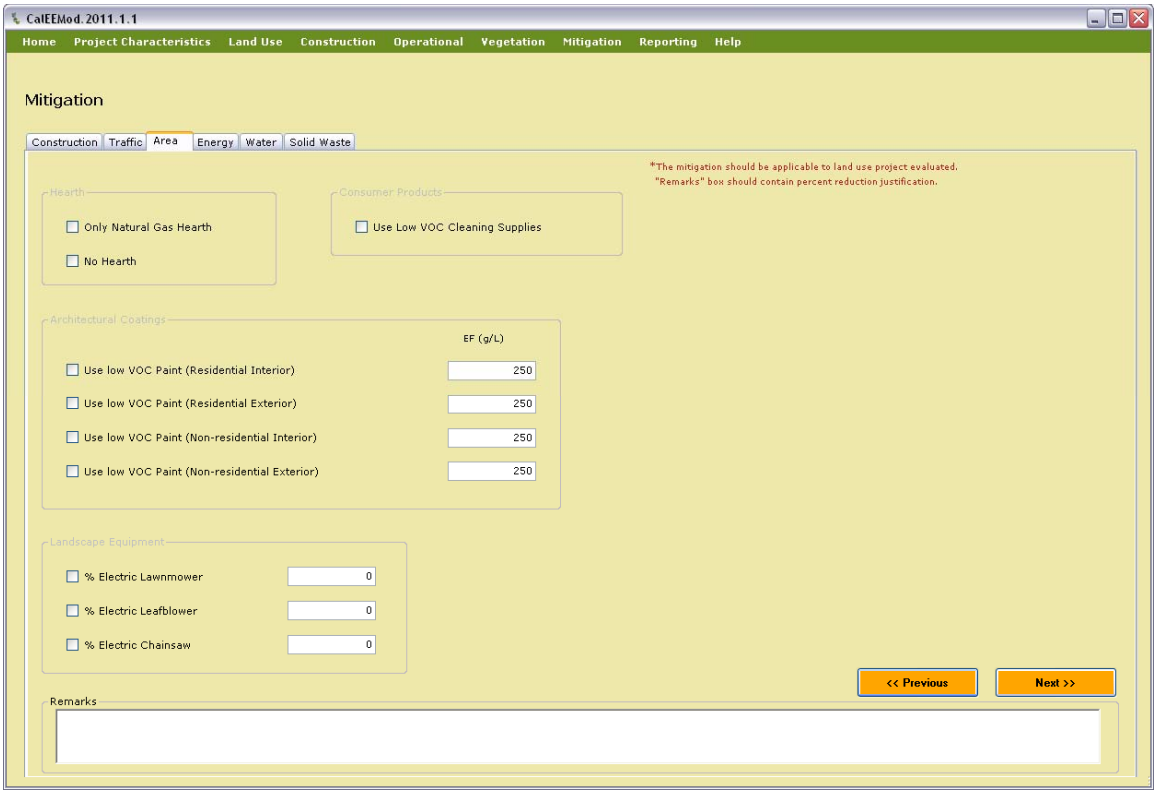
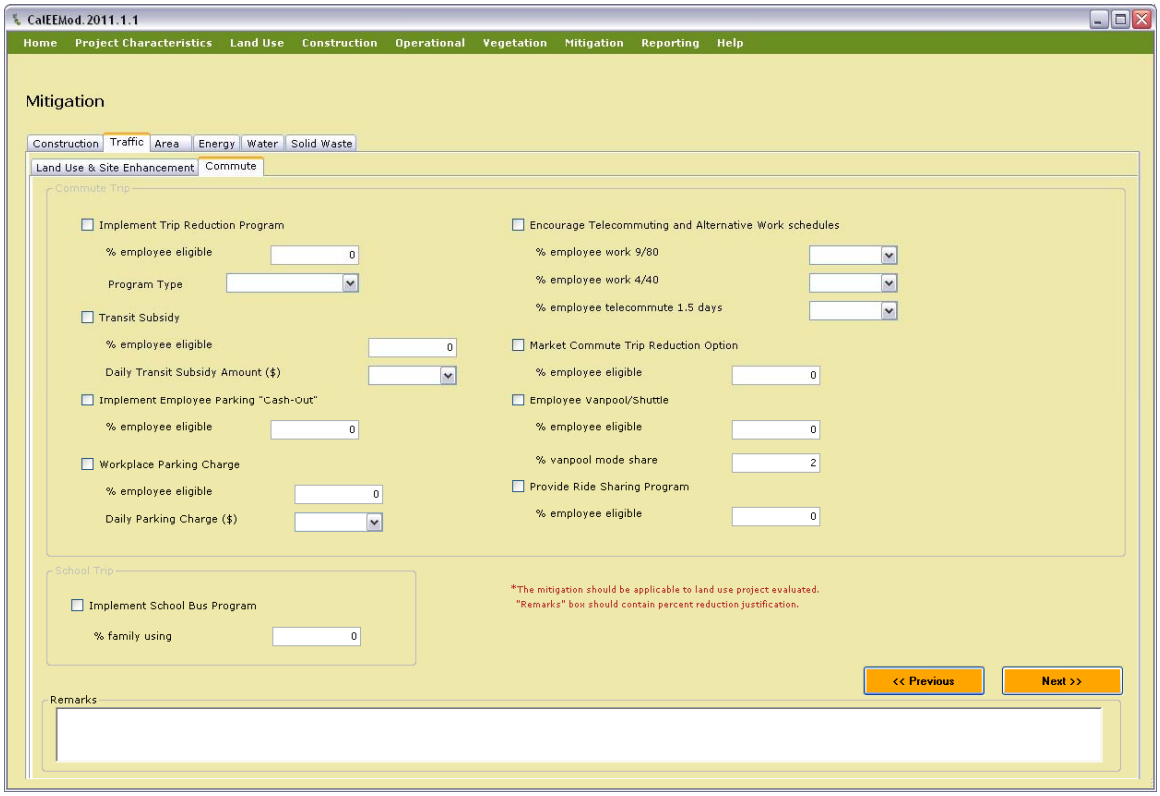
2035 Proposed Plan Uses – Mitigated





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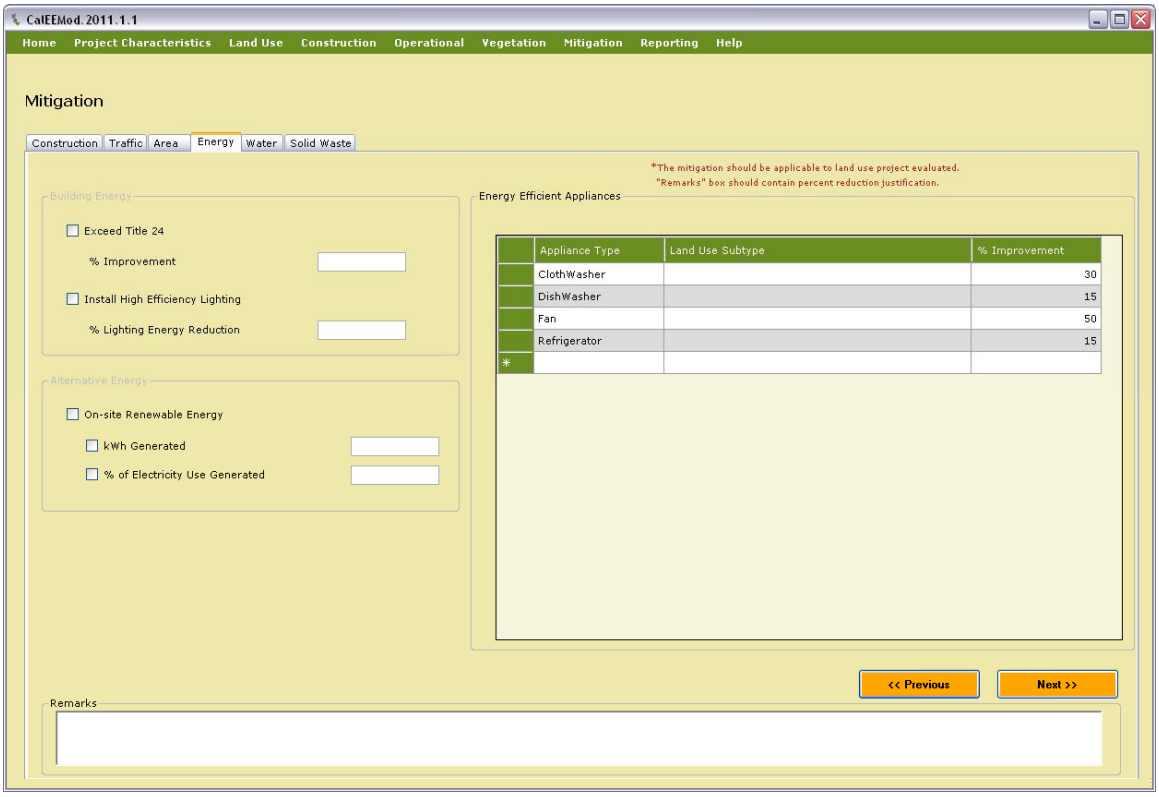
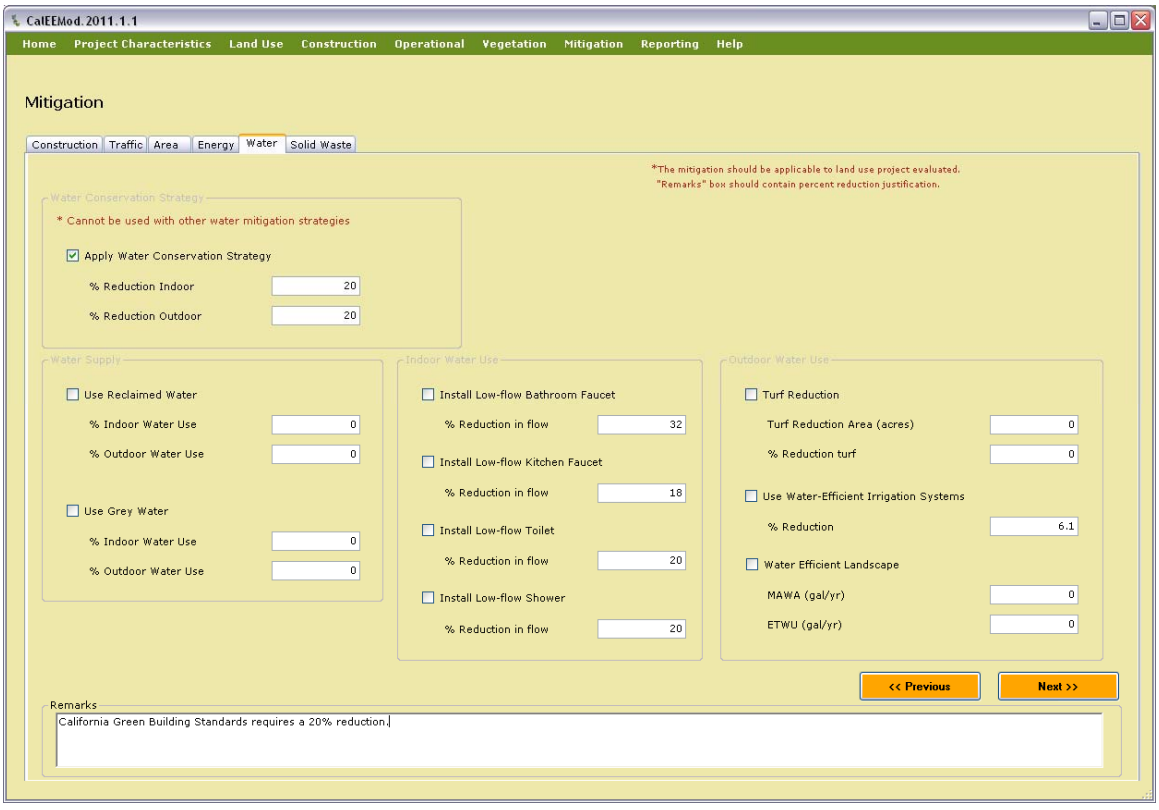
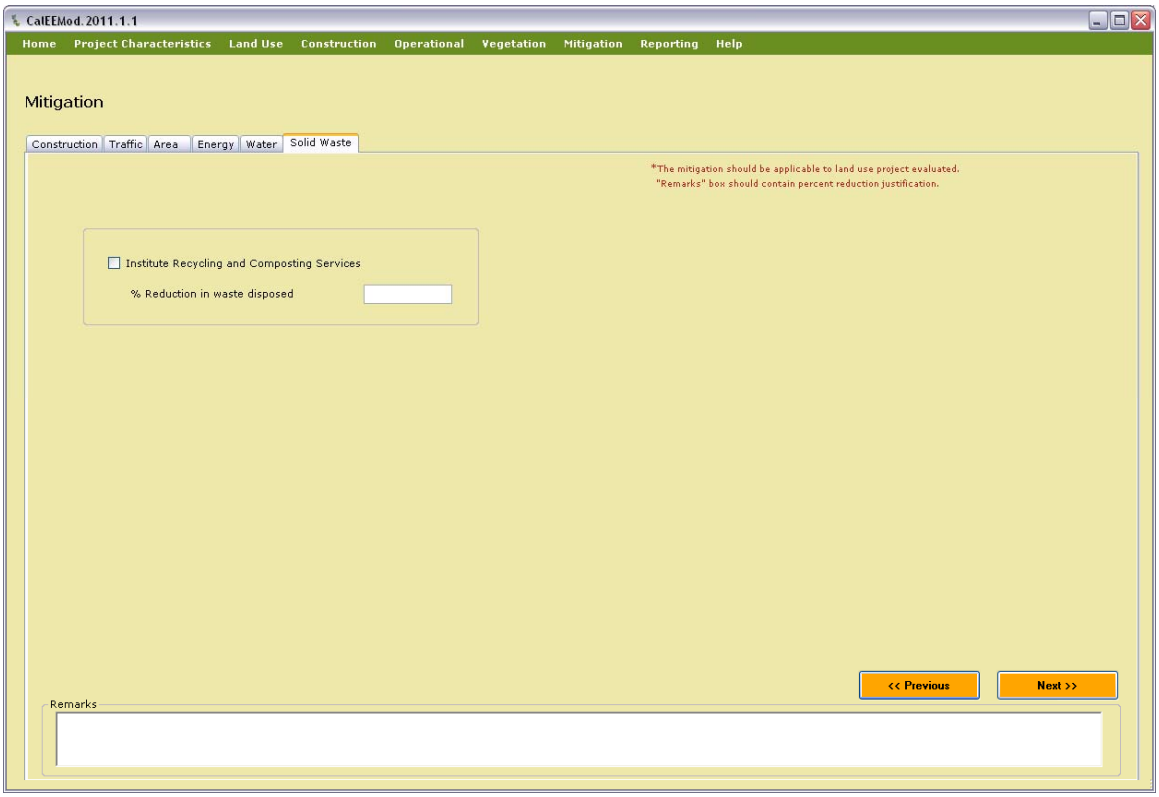




CalEEMod Input

2035 Proposed Plan Uses – Mitigated



CalEEMod Output, 2035 Plan—Summer Mitigation

6447: Del Mar Village Specific Plan Future Uses - Mitgated (2035)

San Diego County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	170	1000sqft
Government (Civic Center)	30.13	1000sqft
City Park	0.14	Acre
Motel	60	Room
Quality Restaurant	66	1000sqft
Apartments Low Rise	140	Dwelling Unit
Strip Mall	124.24	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	San Diego Gas & Electric
Climate Zone	13		2.6		
		Precipitation Freq (Days)			
			40		

1.3 User Entered Comments

Project Characteristics -

Land Use - Based on land use information provided by the City of Del Mar.

Architectural Coating - California Green Build Standards VOC Content Limit is 150 g/L

Vehicle Trips - Trip rates based on KOA Traffic Impact Study.
Vechicle Emission Factors -

Energy Use -

Water Mitigation - California Green Building Standards requires a 20% reduction.

Vechicle Emission Factors -

Vechicle Emission Factors -

Woodstoves - No wood-burning fireplaces

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					
2011	13.32	110.93	59.31	0.10	18.30	5.44	22.92	9.93	5.44	14.55	0.00	11,075.00	0.00	1.19	0.00	11,100.09
2012	449.37	54.68	50.75	0.09	3.97	3.16	7.13	0.06	3.13	3.18	0.00	8,944.47	0.00	0.75	0.00	8,960.12
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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					
2011	13.32	110.93	59.31	0.10	18.08	5.44	22.69	9.93	5.44	14.55	0.00	11,075.00	0.00	1.19	0.00	11,100.09
2012	449.37	54.68	50.75	0.09	0.18	3.16	3.34	0.06	3.13	3.18	0.00	8,944.47	0.00	0.75	0.00	8,960.12
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	20.73	0.65	43.26	0.10		0.00	5.39		0.00	5.39	760.84	2,689.29		3.63	0.05	3,541.47
Energy	0.59	5.30	4.21	0.03		0.00	0.41		0.00	0.41		6,403.04		0.12	0.12	6,442.01
Mobile	36.01	64.60	261.25	0.80	85.12	3.93	89.05	1.18	3.80	4.98		59,454.63		2.18		59,500.41
Total	**57.33**	**70.55**	**308.72**	**0.93**	**85.12**	**3.93**	**94.85**	**1.18**	**3.80**	**10.78**	**760.84**	**68,546.96**		**5.93**	**0.17**	**69,483.89**

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	20.73	0.65	43.26	0.10		0.00	5.39		0.00	5.39	760.84	2,689.29		3.63	0.05	3,541.47
Energy	0.59	5.30	4.21	0.03		0.00	0.41		0.00	0.41		6,403.04		0.12	0.12	6,442.01
Mobile	36.01	64.60	261.25	0.80	85.12	3.93	89.05	1.18	3.80	4.98		59,454.63		2.18		59,500.41
Total	**57.33**	**70.55**	**308.72**	**0.93**	**85.12**	**3.93**	**94.85**	**1.18**	**3.80**	**10.78**	**760.84**	**68,546.96**		**5.93**	**0.17**	**69,483.89**

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.2 Demolition - 2011

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	9.84	79.87	45.95	0.07		4.10	4.10		4.10	4.10		7,510.82		0.88		7,529.33
Total	**9.84**	**79.87**	**45.95**	**0.07**		**4.10**	**4.10**		**4.10**	**4.10**		**7,510.82**		**0.88**		**7,529.33**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.12	1.21	0.00	0.20	0.01	0.20	0.00	0.01	0.01		163.76		0.01		164.00
Total	**0.10**	**0.12**	**1.21**	**0.00**	**0.20**	**0.01**	**0.20**	**0.00**	**0.01**	**0.01**		**163.76**		**0.01**		**164.00**

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	9.84	79.87	45.95	0.07		4.10	4.10		4.10	4.10	0.00	7,510.82		0.88		7,529.33
Total	**9.84**	**79.87**	**45.95**	**0.07**		**4.10**	**4.10**		**4.10**	**4.10**	**0.00**	**7,510.82**		**0.88**		**7,529.33**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.12	1.21	0.00	0.01	0.01	0.01	0.00	0.01	0.01		163.76		0.01		164.00
Total	**0.10**	**0.12**	**1.21**	**0.00**	**0.01**	**0.01**	**0.01**	**0.00**	**0.01**	**0.01**		**163.76**		**0.01**		**164.00**

3.3 Site Preparation - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.07	0.00	18.07	9.93	0.00	9.93						0.00
Off-Road	10.99	89.73	50.45	0.07		4.61	4.61		4.61	4.61		7,997.70		0.99		8,018.42
Total	**10.99**	**89.73**	**50.45**	**0.07**	**18.07**	**4.61**	**22.68**	**9.93**	**4.61**	**14.54**		**7,997.70**		**0.99**		**8,018.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.12	0.14	1.45	0.00	0.23	0.01	0.24	0.00	0.01	0.01		196.51		0.01		196.80
Total	**0.12**	**0.14**	**1.45**	**0.00**	**0.23**	**0.01**	**0.24**	**0.00**	**0.01**	**0.01**		**196.51**		**0.01**		**196.80**

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					18.07	0.00	18.07	9.93	0.00	9.93						0.00
Off-Road	10.99	89.73	50.45	0.07		4.61	4.61		4.61	4.61	0.00	7,997.70		0.99		8,018.42
Total	**10.99**	**89.73**	**50.45**	**0.07**	**18.07**	**4.61**	**22.68**	**9.93**	**4.61**	**14.54**	**0.00**	**7,997.70**		**0.99**		**8,018.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.12	0.14	1.45	0.00	0.01	0.01	0.02	0.00	0.01	0.01		196.51		0.01		196.80
Total	**0.12**	**0.14**	**1.45**	**0.00**	**0.01**	**0.01**	**0.02**	**0.00**	**0.01**	**0.01**		**196.51**		**0.01**		**196.80**

3.4 Grading - 2011

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					8.67	0.00	8.67	3.31	0.00	3.31						0.00
Off-Road	13.18	110.77	57.70	0.10		5.43	5.43		5.43	5.43		10,856.66		1.18		10,881.42
Total	**13.18**	**110.77**	**57.70**	**0.10**	**8.67**	**5.43**	**14.10**	**3.31**	**5.43**	**8.74**		**10,856.66**		**1.18**		**10,881.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.14	0.16	1.61	0.00	0.26	0.01	0.27	0.00	0.01	0.01		218.35		0.02		218.67
Total	**0.14**	**0.16**	**1.61**	**0.00**	**0.26**	**0.01**	**0.27**	**0.00**	**0.01**	**0.01**		**218.35**		**0.02**		**218.67**

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					8.67	0.00	8.67	3.31	0.00	3.31						0.00
Off-Road	13.18	110.77	57.70	0.10		5.43	5.43		5.43	5.43	0.00	10,856.66		1.18		10,881.42
Total	**13.18**	**110.77**	**57.70**	**0.10**	**8.67**	**5.43**	**14.10**	**3.31**	**5.43**	**8.74**	**0.00**	**10,856.66**		**1.18**		**10,881.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.14	0.16	1.61	0.00	0.01	0.01	0.02	0.00	0.01	0.01		218.35		0.02		218.67
Total	**0.14**	**0.16**	**1.61**	**0.00**	**0.01**	**0.01**	**0.02**	**0.00**	**0.01**	**0.01**		**218.35**		**0.02**		**218.67**

3.5 Building Construction - 2011

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	6.11	40.22	24.03	0.04		2.80	2.80		2.80	2.80		4,040.62		0.55		4,052.11
Total	**6.11**	**40.22**	**24.03**	**0.04**		**2.80**	**2.80**		**2.80**	**2.80**		**4,040.62**		**0.55**		**4,052.11**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	1.44	16.74	9.66	0.02	0.77	0.56	1.33	0.02	0.51	0.53		2,281.88		0.07		2,283.37
Worker	1.70	1.97	19.77	0.03	3.20	0.11	3.31	0.04	0.10	0.14		2,674.73		0.19		2,678.69
Total	**3.14**	**18.71**	**29.43**	**0.05**	**3.97**	**0.67**	**4.64**	**0.06**	**0.61**	**0.67**		**4,956.61**		**0.26**		**4,962.06**

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	6.11	40.22	24.03	0.04		2.80	2.80		2.80	2.80	0.00	4,040.62		0.55		4,052.11
Total	**6.11**	**40.22**	**24.03**	**0.04**		**2.80**	**2.80**		**2.80**	**2.80**	**0.00**	**4,040.62**		**0.55**		**4,052.11**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	1.44	16.74	9.66	0.02	0.06	0.56	0.62	0.02	0.51	0.53		2,281.88		0.07		2,283.37
Worker	1.70	1.97	19.77	0.03	0.12	0.11	0.23	0.04	0.10	0.14		2,674.73		0.19		2,678.69
Total	**3.14**	**18.71**	**29.43**	**0.05**	**0.18**	**0.67**	**0.85**	**0.06**	**0.61**	**0.67**		**4,956.61**		**0.26**		**4,962.06**

3.5 Building Construction - 2012

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	5.63	37.37	23.73	0.04		2.54	2.54		2.54	2.54		4,040.62		0.51		4,051.23
Total	**5.63**	**37.37**	**23.73**	**0.04**		**2.54**	**2.54**		**2.54**	**2.54**		**4,040.62**		**0.51**		**4,051.23**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	1.33	15.51	8.88	0.02	0.77	0.51	1.29	0.02	0.47	0.49		2,285.99		0.07		2,287.37
Worker	1.57	1.80	18.13	0.03	3.20	0.11	3.31	0.04	0.10	0.14		2,617.86		0.17		2,621.53
Total	**2.90**	**17.31**	**27.01**	**0.05**	**3.97**	**0.62**	**4.60**	**0.06**	**0.57**	**0.63**		**4,903.85**		**0.24**		**4,908.90**

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	5.63	37.37	23.73	0.04		2.54	2.54		2.54	2.54	0.00	4,040.62		0.51		4,051.23
Total	**5.63**	**37.37**	**23.73**	**0.04**		**2.54**	**2.54**		**2.54**	**2.54**	**0.00**	**4,040.62**		**0.51**		**4,051.23**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	1.33	15.51	8.88	0.02	0.06	0.51	0.57	0.02	0.47	0.49		2,285.99		0.07		2,287.37
Worker	1.57	1.80	18.13	0.03	0.12	0.11	0.23	0.04	0.10	0.14		2,617.86		0.17		2,621.53
Total	**2.90**	**17.31**	**27.01**	**0.05**	**0.18**	**0.62**	**0.80**	**0.06**	**0.57**	**0.63**		**4,903.85**		**0.24**		**4,908.90**

3.6 Paving - 2012

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	5.86	35.62	21.08	0.03		3.13	3.13		3.13	3.13		2,917.64		0.53		2,928.70
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**5.86**	**35.62**	**21.08**	**0.03**		**3.13**	**3.13**		**3.13**	**3.13**		**2,917.64**		**0.53**		**2,928.70**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.11	1.11	0.00	0.20	0.01	0.20	0.00	0.01	0.01		160.28		0.01		160.50
Total	**0.10**	**0.11**	**1.11**	**0.00**	**0.20**	**0.01**	**0.20**	**0.00**	**0.01**	**0.01**		**160.28**		**0.01**		**160.50**

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	5.86	35.62	21.08	0.03		3.13	3.13		3.13	3.13	0.00	2,917.64		0.53		2,928.70
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**5.86**	**35.62**	**21.08**	**0.03**		**3.13**	**3.13**		**3.13**	**3.13**	**0.00**	**2,917.64**		**0.53**		**2,928.70**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.11	1.11	0.00	0.01	0.01	0.01	0.00	0.01	0.01		160.28		0.01		160.50
Total	**0.10**	**0.11**	**1.11**	**0.00**	**0.01**	**0.01**	**0.01**	**0.00**	**0.01**	**0.01**		**160.28**		**0.01**		**160.50**

3.7 Architectural Coating - 2012

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	448.53					0.00	0.00		0.00	0.00						0.00
Off-Road	0.52	3.16	1.96	0.00		0.29	0.29		0.29	0.29		281.19		0.05		282.18
Total	**449.05**	**3.16**	**1.96**	**0.00**		**0.29**	**0.29**		**0.29**	**0.29**		**281.19**		**0.05**		**282.18**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.31	0.36	3.63	0.01	0.64	0.02	0.66	0.01	0.02	0.03		523.57		0.03		524.31
Total	**0.31**	**0.36**	**3.63**	**0.01**	**0.64**	**0.02**	**0.66**	**0.01**	**0.02**	**0.03**		**523.57**		**0.03**		**524.31**

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	448.53					0.00	0.00		0.00	0.00						0.00
Off-Road	0.52	3.16	1.96	0.00		0.29	0.29		0.29	0.29	0.00	281.19		0.05		282.18
Total	**449.05**	**3.16**	**1.96**	**0.00**		**0.29**	**0.29**		**0.29**	**0.29**	**0.00**	**281.19**		**0.05**		**282.18**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.31	0.36	3.63	0.01	0.02	0.02	0.05	0.01	0.02	0.03		523.57		0.03		524.31
Total	**0.31**	**0.36**	**3.63**	**0.01**	**0.02**	**0.02**	**0.05**	**0.01**	**0.02**	**0.03**		**523.57**		**0.03**		**524.31**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	36.01	64.60	261.25	0.80	85.12	3.93	89.05	1.18	3.80	4.98		59,454.63		2.18		59,500.41
Unmitigated	36.01	64.60	261.25	0.80	85.12	3.93	89.05	1.18	3.80	4.98		59,454.63		2.18		59,500.41
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,120.00	1,002.40	849.80	1,995,893	1,995,893
City Park	0.22	0.22	0.22	344	344
General Office Building	3,400.00	69.70	23.80	4,218,095	4,218,095
Government (Civic Center)	903.90	0.00	0.00	801,163	801,163
Motel	540.00	630.00	504.00	781,323	781,323
Quality Restaurant	10,560.00	6,227.76	4762.56	8,322,595	8,322,595
Strip Mall	4,969.60	5,223.05	2538.22	5,434,661	5,434,661
Total	21,493.72	13,153.13	8,678.61	21,554,074	21,554,074

4.3 Trip Type Information

	Miles			Trip %		
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
Apartments Low Rise	5.80	5.80	5.80	41.60	18.80	39.60
City Park	5.80	5.80	5.80	33.00	48.00	19.00
General Office Building	5.80	5.80	5.80	33.00	48.00	19.00
Government (Civic Center)	5.80	5.80	5.80	75.00	20.00	5.00
Motel	5.80	5.80	5.80	19.00	62.00	19.00
Quality Restaurant	5.80	5.80	5.80	12.00	69.00	19.00
Strip Mall	5.80	5.80	5.80	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.59	5.30	4.21	0.03		0.00	0.41		0.00	0.41		6,403.04		0.12	0.12	6,442.01
NaturalGas Unmitigated	0.59	5.30	4.21	0.03		0.00	0.41		0.00	0.41		6,403.04		0.12	0.12	6,442.01
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	lb/day										lb/day					
Apartments Low Rise	6409.74	0.07	0.59	0.25	0.00		0.00	0.05		0.00	0.05		754.09		0.01	0.01	758.68
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
General Office Building	9794.79	0.11	0.96	0.81	0.01		0.00	0.07		0.00	0.07		1,152.33		0.02	0.02	1,159.34
Government (Civic Center)	1735.75	0.02	0.17	0.14	0.00		0.00	0.01		0.00	0.01		204.21		0.00	0.00	205.45
Motel	3834.38	0.04	0.38	0.32	0.00		0.00	0.03		0.00	0.03		451.10		0.01	0.01	453.85
Quality Restaurant	31871.7	0.34	3.12	2.62	0.02		0.00	0.24		0.00	0.24		3,749.61		0.07	0.07	3,772.43
Strip Mall	779.472	0.01	0.08	0.06	0.00		0.00	0.01		0.00	0.01		91.70		0.00	0.00	92.26
Total		**0.59**	**5.30**	**4.20**	**0.03**		**0.00**	**0.41**		**0.00**	**0.41**		**6,403.04**		**0.11**	**0.11**	**6,442.01**

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	lb/day										lb/day					
Apartments Low Rise	6.40974	0.07	0.59	0.25	0.00		0.00	0.05		0.00	0.05		754.09		0.01	0.01	758.68
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
General Office Building	9.79479	0.11	0.96	0.81	0.01		0.00	0.07		0.00	0.07		1,152.33		0.02	0.02	1,159.34
Government (Civic Center)	1.73575	0.02	0.17	0.14	0.00		0.00	0.01		0.00	0.01		204.21		0.00	0.00	205.45
Motel	3.83438	0.04	0.38	0.32	0.00		0.00	0.03		0.00	0.03		451.10		0.01	0.01	453.85
Quality Restaurant	31.8717	0.34	3.12	2.62	0.02		0.00	0.24		0.00	0.24		3,749.61		0.07	0.07	3,772.43
Strip Mall	0.779472	0.01	0.08	0.06	0.00		0.00	0.01		0.00	0.01		91.70		0.00	0.00	92.26
Total		**0.59**	**5.30**	**4.20**	**0.03**		**0.00**	**0.41**		**0.00**	**0.41**		**6,403.04**		**0.11**	**0.11**	**6,442.01**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	20.73	0.65	43.26	0.10		0.00	5.39		0.00	5.39	760.84	2,689.29		3.63	0.05	3,541.47
Unmitigated	20.73	0.65	43.26	0.10		0.00	5.39		0.00	5.39	760.84	2,689.29		3.63	0.05	3,541.47
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	4.10					0.00	0.00		0.00	0.00						0.00
Consumer Products	12.56					0.00	0.00		0.00	0.00						0.00
Hearth	3.72	0.52	31.61	0.10		0.00	5.32		0.00	5.32	760.84	2,668.24		3.61	0.05	3,520.00
Landscaping	0.35	0.13	11.64	0.00		0.00	0.06		0.00	0.06		21.05		0.02		21.47
Total	**20.73**	**0.65**	**43.25**	**0.10**		**0.00**	**5.38**		**0.00**	**5.38**	**760.84**	**2,689.29**		**3.63**	**0.05**	**3,541.47**

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	4.10					0.00	0.00		0.00	0.00						0.00
Consumer Products	12.56					0.00	0.00		0.00	0.00						0.00
Hearth	3.72	0.52	31.61	0.10		0.00	5.32		0.00	5.32	760.84	2,668.24		3.61	0.05	3,520.00
Landscaping	0.35	0.13	11.64	0.00		0.00	0.06		0.00	0.06		21.05		0.02		21.47
Total	**20.73**	**0.65**	**43.25**	**0.10**		**0.00**	**5.38**		**0.00**	**5.38**	**760.84**	**2,689.29**		**3.63**	**0.05**	**3,541.47**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

CalEEMod Output, 2035 Plan—Winter Mitigation

6447: Del Mar Village Specific Plan Future Uses - Mitgated (2035)

San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	170	1000sqft
Government (Civic Center)	30.13	1000sqft
City Park	0.14	Acre
Motel	60	Room
Quality Restaurant	66	1000sqft
Apartments Low Rise	140	Dwelling Unit
Strip Mall	124.24	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	San Diego Gas & Electric
Climate Zone	13		2.6		
		Precipitation Freq (Days)			
			40		

1.3 User Entered Comments

Project Characteristics -

Land Use - Based on land use information provided by the City of Del Mar.

Architectural Coating - California Green Build Standards VOC Content Limit is 150 g/L

Vehicle Trips - Trip rates based on KOA Traffic Impact Study.
Vechicle Emission Factors -

Energy Use -

Water Mitigation - California Green Building Standards requires a 20% reduction.

Vechicle Emission Factors -

Vechicle Emission Factors -

Woodstoves - No wood-burning fireplaces

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					
2011	13.33	110.95	59.23	0.10	18.30	5.44	22.92	9.93	5.44	14.55	0.00	11,058.34	0.00	1.19	0.00	11,083.42
2012	449.40	55.17	50.90	0.09	3.97	3.18	7.15	0.06	3.13	3.19	0.00	8,726.50	0.00	0.74	0.00	8,742.09
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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					
2011	13.33	110.95	59.23	0.10	18.08	5.44	22.69	9.93	5.44	14.55	0.00	11,058.34	0.00	1.19	0.00	11,083.42
2012	449.40	55.17	50.90	0.09	0.18	3.18	3.35	0.06	3.13	3.19	0.00	8,726.50	0.00	0.74	0.00	8,742.09
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	20.73	0.65	43.26	0.10		0.00	5.39		0.00	5.39	760.84	2,689.29		3.63	0.05	3,541.47
Energy	0.59	5.30	4.21	0.03		0.00	0.41		0.00	0.41		6,403.04		0.12	0.12	6,442.01
Mobile	37.35	64.81	273.08	0.75	85.12	3.96	89.09	1.18	3.83	5.01		55,705.57		2.20		55,751.69
Total	**58.67**	**70.76**	**320.55**	**0.88**	**85.12**	**3.96**	**94.89**	**1.18**	**3.83**	**10.81**	**760.84**	**64,797.90**		**5.95**	**0.17**	**65,735.17**

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	20.73	0.65	43.26	0.10		0.00	5.39		0.00	5.39	760.84	2,689.29		3.63	0.05	3,541.47
Energy	0.59	5.30	4.21	0.03		0.00	0.41		0.00	0.41		6,403.04		0.12	0.12	6,442.01
Mobile	37.35	64.81	273.08	0.75	85.12	3.96	89.09	1.18	3.83	5.01		55,705.57		2.20		55,751.69
Total	**58.67**	**70.76**	**320.55**	**0.88**	**85.12**	**3.96**	**94.89**	**1.18**	**3.83**	**10.81**	**760.84**	**64,797.90**		**5.95**	**0.17**	**65,735.17**

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.2 Demolition - 2011

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	9.84	79.87	45.95	0.07		4.10	4.10		4.10	4.10		7,510.82		0.88		7,529.33
Total	**9.84**	**79.87**	**45.95**	**0.07**		**4.10**	**4.10**		**4.10**	**4.10**		**7,510.82**		**0.88**		**7,529.33**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.13	1.15	0.00	0.20	0.01	0.20	0.00	0.01	0.01		151.26		0.01		151.50
Total	**0.11**	**0.13**	**1.15**	**0.00**	**0.20**	**0.01**	**0.20**	**0.00**	**0.01**	**0.01**		**151.26**		**0.01**		**151.50**

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	9.84	79.87	45.95	0.07		4.10	4.10		4.10	4.10	0.00	7,510.82		0.88		7,529.33
Total	**9.84**	**79.87**	**45.95**	**0.07**		**4.10**	**4.10**		**4.10**	**4.10**	**0.00**	**7,510.82**		**0.88**		**7,529.33**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.13	1.15	0.00	0.01	0.01	0.01	0.00	0.01	0.01		151.26		0.01		151.50
Total	**0.11**	**0.13**	**1.15**	**0.00**	**0.01**	**0.01**	**0.01**	**0.00**	**0.01**	**0.01**		**151.26**		**0.01**		**151.50**

3.3 Site Preparation - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.07	0.00	18.07	9.93	0.00	9.93						0.00
Off-Road	10.99	89.73	50.45	0.07		4.61	4.61		4.61	4.61		7,997.70		0.99		8,018.42
Total	**10.99**	**89.73**	**50.45**	**0.07**	**18.07**	**4.61**	**22.68**	**9.93**	**4.61**	**14.54**		**7,997.70**		**0.99**		**8,018.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.14	0.16	1.38	0.00	0.23	0.01	0.24	0.00	0.01	0.01		181.52		0.01		181.80
Total	**0.14**	**0.16**	**1.38**	**0.00**	**0.23**	**0.01**	**0.24**	**0.00**	**0.01**	**0.01**		**181.52**		**0.01**		**181.80**

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					18.07	0.00	18.07	9.93	0.00	9.93						0.00
Off-Road	10.99	89.73	50.45	0.07		4.61	4.61		4.61	4.61	0.00	7,997.70		0.99		8,018.42
Total	**10.99**	**89.73**	**50.45**	**0.07**	**18.07**	**4.61**	**22.68**	**9.93**	**4.61**	**14.54**	**0.00**	**7,997.70**		**0.99**		**8,018.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.14	0.16	1.38	0.00	0.01	0.01	0.02	0.00	0.01	0.01		181.52		0.01		181.80
Total	**0.14**	**0.16**	**1.38**	**0.00**	**0.01**	**0.01**	**0.02**	**0.00**	**0.01**	**0.01**		**181.52**		**0.01**		**181.80**

3.4 Grading - 2011

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					8.67	0.00	8.67	3.31	0.00	3.31						0.00
Off-Road	13.18	110.77	57.70	0.10		5.43	5.43		5.43	5.43		10,856.66		1.18		10,881.42
Total	**13.18**	**110.77**	**57.70**	**0.10**	**8.67**	**5.43**	**14.10**	**3.31**	**5.43**	**8.74**		**10,856.66**		**1.18**		**10,881.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.15	0.18	1.54	0.00	0.26	0.01	0.27	0.00	0.01	0.01		201.69		0.01		202.00
Total	**0.15**	**0.18**	**1.54**	**0.00**	**0.26**	**0.01**	**0.27**	**0.00**	**0.01**	**0.01**		**201.69**		**0.01**		**202.00**

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					8.67	0.00	8.67	3.31	0.00	3.31						0.00
Off-Road	13.18	110.77	57.70	0.10		5.43	5.43		5.43	5.43	0.00	10,856.66		1.18		10,881.42
Total	**13.18**	**110.77**	**57.70**	**0.10**	**8.67**	**5.43**	**14.10**	**3.31**	**5.43**	**8.74**	**0.00**	**10,856.66**		**1.18**		**10,881.42**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.15	0.18	1.54	0.00	0.01	0.01	0.02	0.00	0.01	0.01		201.69		0.01		202.00
Total	**0.15**	**0.18**	**1.54**	**0.00**	**0.01**	**0.01**	**0.02**	**0.00**	**0.01**	**0.01**		**201.69**		**0.01**		**202.00**

3.5 Building Construction - 2011

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	6.11	40.22	24.03	0.04		2.80	2.80		2.80	2.80		4,040.62		0.55		4,052.11
Total	**6.11**	**40.22**	**24.03**	**0.04**		**2.80**	**2.80**		**2.80**	**2.80**		**4,040.62**		**0.55**		**4,052.11**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	1.51	17.12	10.72	0.02	0.77	0.57	1.34	0.02	0.52	0.54		2,264.55		0.07		2,266.11
Worker	1.85	2.15	18.82	0.02	3.20	0.11	3.31	0.04	0.10	0.14		2,470.64		0.18		2,474.47
Total	**3.36**	**19.27**	**29.54**	**0.04**	**3.97**	**0.68**	**4.65**	**0.06**	**0.62**	**0.68**		**4,735.19**		**0.25**		**4,740.58**

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	6.11	40.22	24.03	0.04		2.80	2.80		2.80	2.80	0.00	4,040.62		0.55		4,052.11
Total	**6.11**	**40.22**	**24.03**	**0.04**		**2.80**	**2.80**		**2.80**	**2.80**	**0.00**	**4,040.62**		**0.55**		**4,052.11**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	1.51	17.12	10.72	0.02	0.06	0.57	0.63	0.02	0.52	0.54		2,264.55		0.07		2,266.11
Worker	1.85	2.15	18.82	0.02	0.12	0.11	0.23	0.04	0.10	0.14		2,470.64		0.18		2,474.47
Total	**3.36**	**19.27**	**29.54**	**0.04**	**0.18**	**0.68**	**0.86**	**0.06**	**0.62**	**0.68**		**4,735.19**		**0.25**		**4,740.58**

3.5 Building Construction - 2012

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	5.63	37.37	23.73	0.04		2.54	2.54		2.54	2.54		4,040.62		0.51		4,051.23
Total	**5.63**	**37.37**	**23.73**	**0.04**		**2.54**	**2.54**		**2.54**	**2.54**		**4,040.62**		**0.51**		**4,051.23**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	1.39	15.83	9.93	0.02	0.77	0.52	1.30	0.02	0.48	0.50		2,268.27		0.07		2,269.70
Worker	1.71	1.97	17.24	0.02	3.20	0.11	3.31	0.04	0.10	0.14		2,417.62		0.17		2,421.16
Total	**3.10**	**17.80**	**27.17**	**0.04**	**3.97**	**0.63**	**4.61**	**0.06**	**0.58**	**0.64**		**4,685.89**		**0.24**		**4,690.86**

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	5.63	37.37	23.73	0.04		2.54	2.54		2.54	2.54	0.00	4,040.62		0.51		4,051.23
Total	**5.63**	**37.37**	**23.73**	**0.04**		**2.54**	**2.54**		**2.54**	**2.54**	**0.00**	**4,040.62**		**0.51**		**4,051.23**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	1.39	15.83	9.93	0.02	0.06	0.52	0.58	0.02	0.48	0.50		2,268.27		0.07		2,269.70
Worker	1.71	1.97	17.24	0.02	0.12	0.11	0.23	0.04	0.10	0.14		2,417.62		0.17		2,421.16
Total	**3.10**	**17.80**	**27.17**	**0.04**	**0.18**	**0.63**	**0.81**	**0.06**	**0.58**	**0.64**		**4,685.89**		**0.24**		**4,690.86**

3.6 Paving - 2012

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	5.86	35.62	21.08	0.03		3.13	3.13		3.13	3.13		2,917.64		0.53		2,928.70
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**5.86**	**35.62**	**21.08**	**0.03**		**3.13**	**3.13**		**3.13**	**3.13**		**2,917.64**		**0.53**		**2,928.70**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.12	1.06	0.00	0.20	0.01	0.20	0.00	0.01	0.01		148.02		0.01		148.23
Total	**0.10**	**0.12**	**1.06**	**0.00**	**0.20**	**0.01**	**0.20**	**0.00**	**0.01**	**0.01**		**148.02**		**0.01**		**148.23**

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	5.86	35.62	21.08	0.03		3.13	3.13		3.13	3.13	0.00	2,917.64		0.53		2,928.70
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**5.86**	**35.62**	**21.08**	**0.03**		**3.13**	**3.13**		**3.13**	**3.13**	**0.00**	**2,917.64**		**0.53**		**2,928.70**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.12	1.06	0.00	0.01	0.01	0.01	0.00	0.01	0.01		148.02		0.01		148.23
Total	**0.10**	**0.12**	**1.06**	**0.00**	**0.01**	**0.01**	**0.01**	**0.00**	**0.01**	**0.01**		**148.02**		**0.01**		**148.23**

3.7 Architectural Coating - 2012

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	448.53					0.00	0.00		0.00	0.00						0.00
Off-Road	0.52	3.16	1.96	0.00		0.29	0.29		0.29	0.29		281.19		0.05		282.18
Total	**449.05**	**3.16**	**1.96**	**0.00**		**0.29**	**0.29**		**0.29**	**0.29**		**281.19**		**0.05**		**282.18**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.34	0.39	3.45	0.00	0.64	0.02	0.66	0.01	0.02	0.03		483.52		0.03		484.23
Total	**0.34**	**0.39**	**3.45**	**0.00**	**0.64**	**0.02**	**0.66**	**0.01**	**0.02**	**0.03**		**483.52**		**0.03**		**484.23**

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	448.53					0.00	0.00		0.00	0.00						0.00
Off-Road	0.52	3.16	1.96	0.00		0.29	0.29		0.29	0.29	0.00	281.19		0.05		282.18
Total	**449.05**	**3.16**	**1.96**	**0.00**		**0.29**	**0.29**		**0.29**	**0.29**	**0.00**	**281.19**		**0.05**		**282.18**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.34	0.39	3.45	0.00	0.02	0.02	0.05	0.01	0.02	0.03		483.52		0.03		484.23
Total	**0.34**	**0.39**	**3.45**	**0.00**	**0.02**	**0.02**	**0.05**	**0.01**	**0.02**	**0.03**		**483.52**		**0.03**		**484.23**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	37.35	64.81	273.08	0.75	85.12	3.96	89.09	1.18	3.83	5.01		55,705.57		2.20		55,751.69
Unmitigated	37.35	64.81	273.08	0.75	85.12	3.96	89.09	1.18	3.83	5.01		55,705.57		2.20		55,751.69
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,120.00	1,002.40	849.80	1,995,893	1,995,893
City Park	0.22	0.22	0.22	344	344
General Office Building	3,400.00	69.70	23.80	4,218,095	4,218,095
Government (Civic Center)	903.90	0.00	0.00	801,163	801,163
Motel	540.00	630.00	504.00	781,323	781,323
Quality Restaurant	10,560.00	6,227.76	4762.56	8,322,595	8,322,595
Strip Mall	4,969.60	5,223.05	2538.22	5,434,661	5,434,661
Total	21,493.72	13,153.13	8,678.61	21,554,074	21,554,074

4.3 Trip Type Information

	Miles			Trip %		
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
Apartments Low Rise	5.80	5.80	5.80	41.60	18.80	39.60
City Park	5.80	5.80	5.80	33.00	48.00	19.00
General Office Building	5.80	5.80	5.80	33.00	48.00	19.00
Government (Civic Center)	5.80	5.80	5.80	75.00	20.00	5.00
Motel	5.80	5.80	5.80	19.00	62.00	19.00
Quality Restaurant	5.80	5.80	5.80	12.00	69.00	19.00
Strip Mall	5.80	5.80	5.80	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.59	5.30	4.21	0.03		0.00	0.41		0.00	0.41		6,403.04		0.12	0.12	6,442.01
NaturalGas Unmitigated	0.59	5.30	4.21	0.03		0.00	0.41		0.00	0.41		6,403.04		0.12	0.12	6,442.01
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	lb/day										lb/day					
Apartments Low Rise	6409.74	0.07	0.59	0.25	0.00		0.00	0.05		0.00	0.05		754.09		0.01	0.01	758.68
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
General Office Building	9794.79	0.11	0.96	0.81	0.01		0.00	0.07		0.00	0.07		1,152.33		0.02	0.02	1,159.34
Government (Civic Center)	1735.75	0.02	0.17	0.14	0.00		0.00	0.01		0.00	0.01		204.21		0.00	0.00	205.45
Motel	3834.38	0.04	0.38	0.32	0.00		0.00	0.03		0.00	0.03		451.10		0.01	0.01	453.85
Quality Restaurant	31871.7	0.34	3.12	2.62	0.02		0.00	0.24		0.00	0.24		3,749.61		0.07	0.07	3,772.43
Strip Mall	779.472	0.01	0.08	0.06	0.00		0.00	0.01		0.00	0.01		91.70		0.00	0.00	92.26
Total		**0.59**	**5.30**	**4.20**	**0.03**		**0.00**	**0.41**		**0.00**	**0.41**		**6,403.04**		**0.11**	**0.11**	**6,442.01**

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	lb/day										lb/day					
Apartments Low Rise	6.40974	0.07	0.59	0.25	0.00		0.00	0.05		0.00	0.05		754.09		0.01	0.01	758.68
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
General Office Building	9.79479	0.11	0.96	0.81	0.01		0.00	0.07		0.00	0.07		1,152.33		0.02	0.02	1,159.34
Government (Civic Center)	1.73575	0.02	0.17	0.14	0.00		0.00	0.01		0.00	0.01		204.21		0.00	0.00	205.45
Motel	3.83438	0.04	0.38	0.32	0.00		0.00	0.03		0.00	0.03		451.10		0.01	0.01	453.85
Quality Restaurant	31.8717	0.34	3.12	2.62	0.02		0.00	0.24		0.00	0.24		3,749.61		0.07	0.07	3,772.43
Strip Mall	0.779472	0.01	0.08	0.06	0.00		0.00	0.01		0.00	0.01		91.70		0.00	0.00	92.26
Total		**0.59**	**5.30**	**4.20**	**0.03**		**0.00**	**0.41**		**0.00**	**0.41**		**6,403.04**		**0.11**	**0.11**	**6,442.01**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	20.73	0.65	43.26	0.10		0.00	5.39		0.00	5.39	760.84	2,689.29		3.63	0.05	3,541.47
Unmitigated	20.73	0.65	43.26	0.10		0.00	5.39		0.00	5.39	760.84	2,689.29		3.63	0.05	3,541.47
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	4.10					0.00	0.00		0.00	0.00						0.00
Consumer Products	12.56					0.00	0.00		0.00	0.00						0.00
Hearth	3.72	0.52	31.61	0.10		0.00	5.32		0.00	5.32	760.84	2,668.24		3.61	0.05	3,520.00
Landscaping	0.35	0.13	11.64	0.00		0.00	0.06		0.00	0.06		21.05		0.02		21.47
Total	**20.73**	**0.65**	**43.25**	**0.10**		**0.00**	**5.38**		**0.00**	**5.38**	**760.84**	**2,689.29**		**3.63**	**0.05**	**3,541.47**

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	4.10					0.00	0.00		0.00	0.00						0.00
Consumer Products	12.56					0.00	0.00		0.00	0.00						0.00
Hearth	3.72	0.52	31.61	0.10		0.00	5.32		0.00	5.32	760.84	2,668.24		3.61	0.05	3,520.00
Landscaping	0.35	0.13	11.64	0.00		0.00	0.06		0.00	0.06		21.05		0.02		21.47
Total	**20.73**	**0.65**	**43.25**	**0.10**		**0.00**	**5.38**		**0.00**	**5.38**	**760.84**	**2,689.29**		**3.63**	**0.05**	**3,541.47**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation