

**AIR QUALITY ASSESSMENT
FOR
St. GEORGE CATHOLIC CHURCH**

Prepared For:

Diocese of San Bernardino
Office of Construction & Real Estate
1201 East Highland Avenue
San Bernardino, CA 93404

Prepared By:

Lilburn Corporation
1905 Business Center Drive
San Bernardino, California 92408

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APPENDICES

Appendix A Modeling Results

1.0 INTRODUCTION

The applicant (Diocese of San Bernardino) has submitted an application for an expansion of St. George Catholic Church, a 273-seat sanctuary (church). The revision includes the build out of the church at 1,200 seats. Therefore, the analyses will evaluate the growth of 927 seats. The project site is on approximately 9.42 acres located at 17895 San Bernardino Avenue, in Fontana in unincorporated San Bernardino County. Refer to Figures 1, 2, and 3 for a regional location map, project vicinity map and site plan, respectively.

This report is a study of the potential impacts the project may have on the local and regional air quality in the vicinity during construction and ultimate operational use. This air quality assessment discusses the existing air quality in the vicinity/region and the potential air quality impacts associated with the planned project. Background material, including air quality emissions data output, is included in Appendix A.

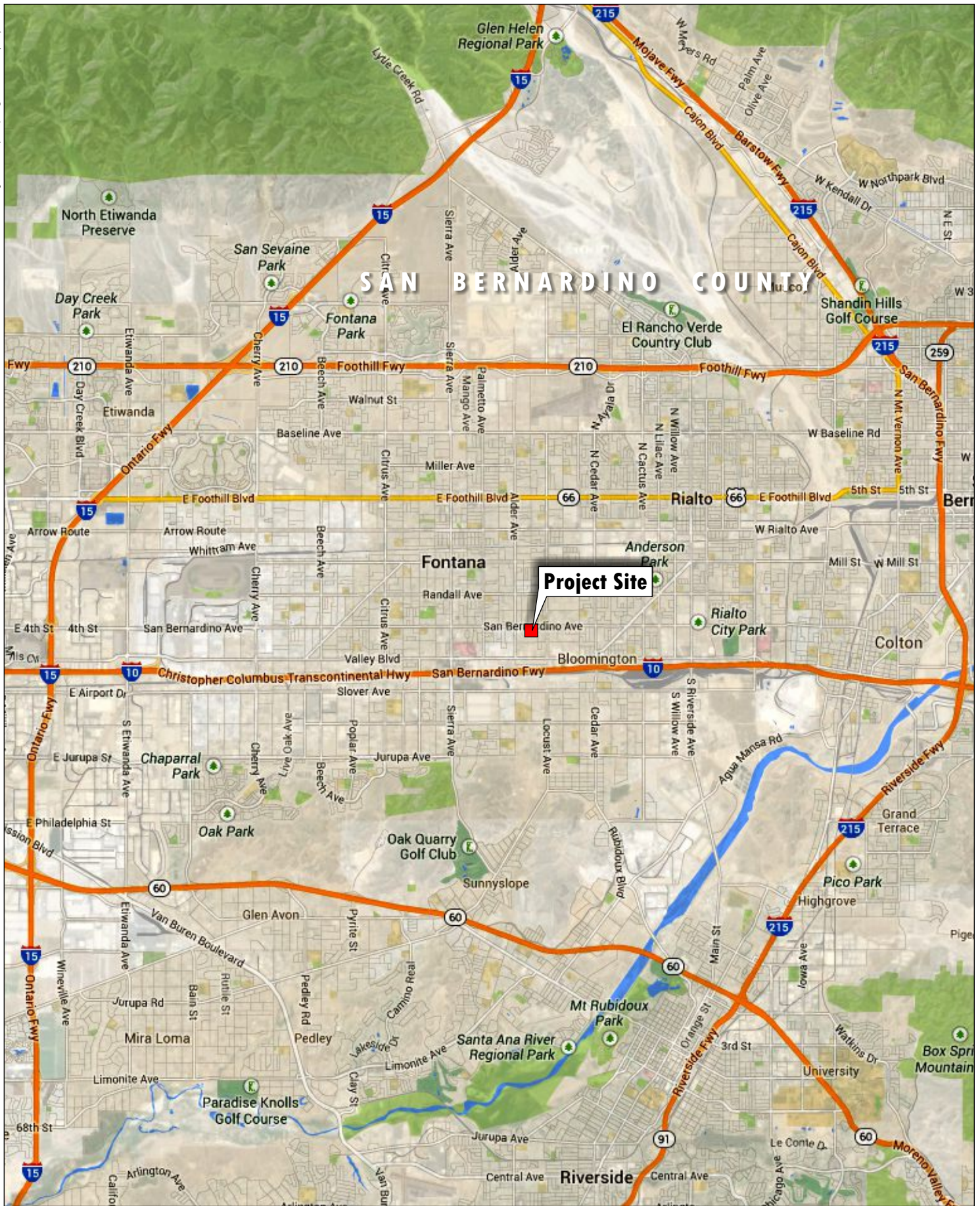
2.0 GENERAL SETTING

2.1 CLIMATE

The project is located in western San Bernardino County. The study area has a Mediterranean climate with warm dry summers, mild winters with moderate rainfall. The climate is modified by the cold California Current in the Pacific Ocean, the mountain ranges that outline the Los Angeles Basin and San Bernardino Valley, and the deserts to the north and east.

The California Current causes a cold layer of air to form close to the surface. As the air above this layer is warm, air within it cannot rise normally, a phenomenon known as an inversion. The inversion traps pollutants close to the surface, causing higher than usual concentrations of ozone, suspended particles and other ingredients of smog. The mountains prevent cooler marine air from traveling very far inland, making the deserts drier and hotter than the coastal regions. The hot desert air rises, and cooler marine air from the west moves in the form of a sea breeze. A sea breeze is normal in all coastal regions, but in southern California it is exceptionally strong due to the great contrasts in temperature and the funneling effects of the mountains. In this region, the sea breeze brings higher quantities of pollutants from the Los Angeles metropolitan area to the inland valleys, exacerbating problems caused by local pollution sources.

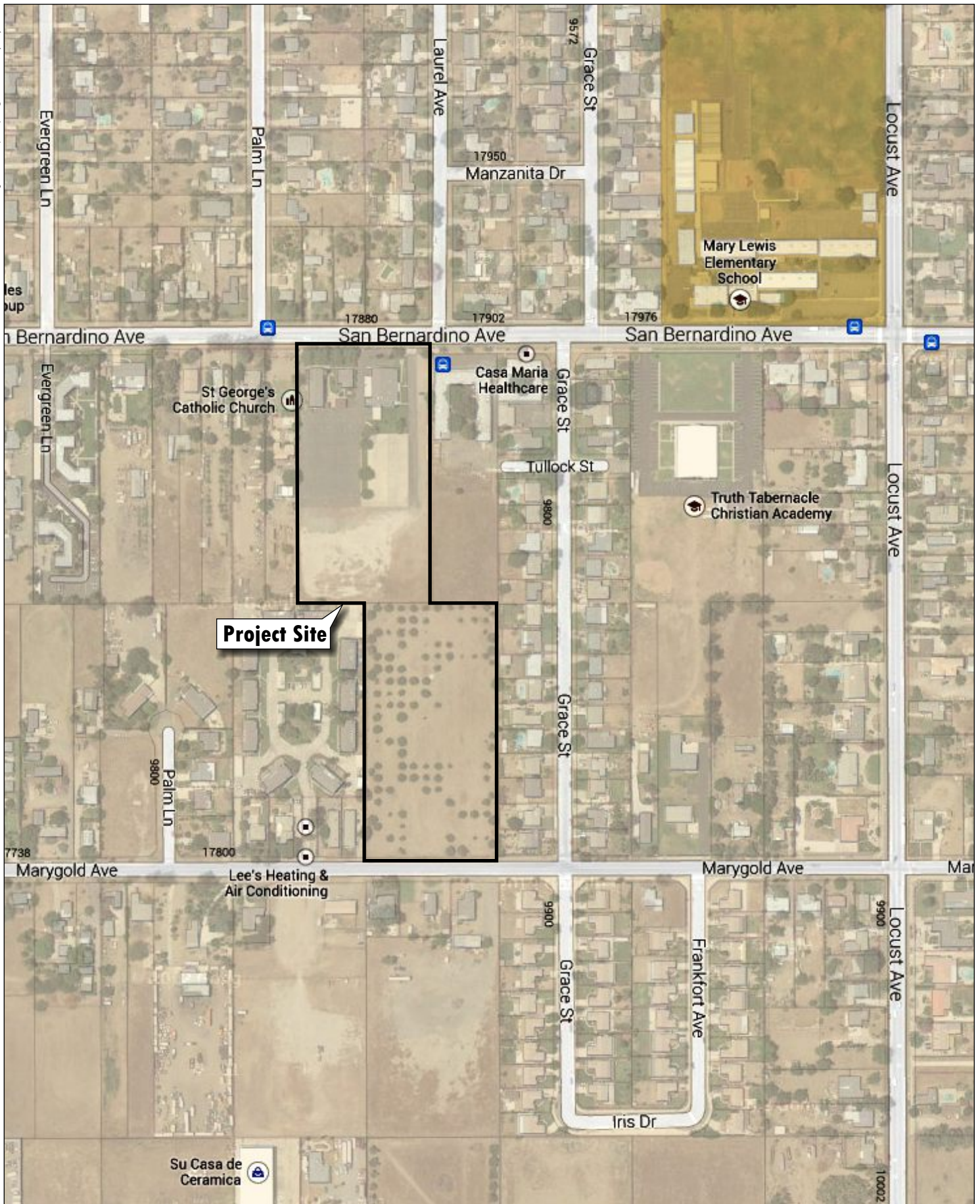
The topographic and climatologic regional effects summarized above cause numerous days when air pollutants exceed federal and/or State air quality standards. This has led to aggressive air quality management measures being required by the federal, State, and local governments.



REGIONAL LOCATION

ST. GEORGE CATHOLIC CHURCH
 Proposed Church Expansion
 City of Fontana, California

FIGURE 1



Project Site

PROJECT VICINITY

ST. GEORGE CATHOLIC CHURCH
 Proposed Church Expansion
 City of Fontana, California

FIGURE 2

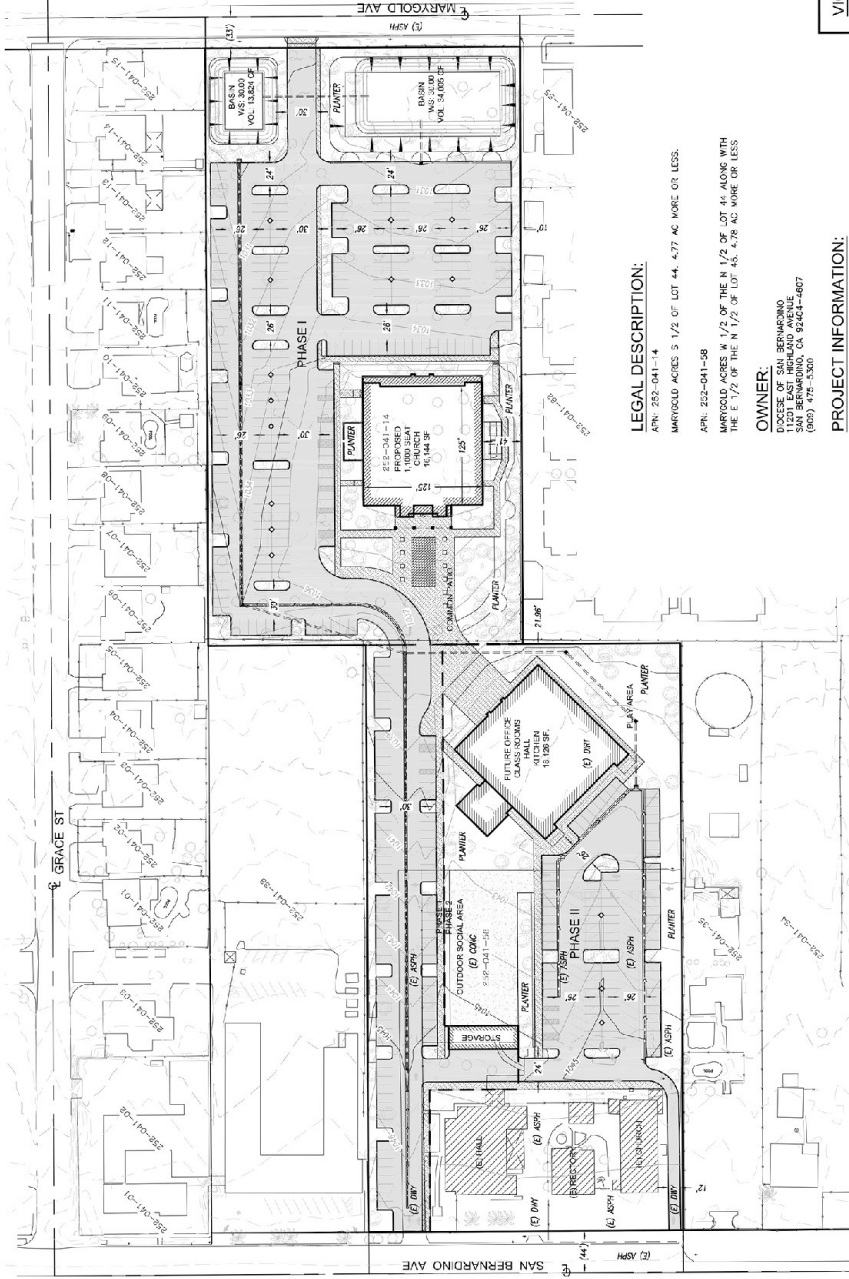


Source: Lilburn Corp., 2013

LILBURN
 CORPORATION

ST. GEORGE

PROPOSED CHURCH EXPANSION
 SAN BERNARDINO COUNTY, CALIFORNIA
 PORTIONS OF N.E. 1/4, SECTION 20 OF TOWNSHIP 1 SOUTH, RANGE 5 WEST, SAN BERNARDINO
 BASE MERIDIAN, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA



UTILITY COMPANIES:

ELECTRIC: SOUTHERN CALIFORNIA EDISON
 1600 WEST 10TH STREET
 REDLANDS, CA 92373
 (909) 337-4791

WATER: MARYGOLD METALL WATER COMPANY
 (909) 877-6516

GAZ: SAN PIERRE CALIFORNIA GAS CO.
 1000 WEST 10TH STREET
 REDLANDS, CA 92373
 (909) 827-2500

TELEPHONE: VERIZON
 1000 HUNTINGTON BEACH, CA 92647
 (800) 453-5000

SEWER: ON-SITE SEPTIC (EXISTING)

PARCEL COVERAGE:

| SUBJECT | EXISTING | % | PROPOSED |
|---------------|---------------------|-------------|-------------------|
| FLOORING | 14,850 S.F. | 7.4% | 45,500 S.F. |
| A.C. PAVEMENT | 65,438 S.F. | 33.0% | 178,500 S.F. |
| LANDSCAPE | 12,340 S.F. | 6.3% | 131,160 S.F. |
| UNDEVELOPED | 239,187 S.F. | 122.0% | 0 S.F. |
| TOTALS | 410,174 S.F. | 100% | (9.42 AC.) |

PARKING CALC'S:

REQUIRED **PROVIDED**

MAIN ASSEMBLY AREA
 1 PER 50 S.F. OF SEATING AREA WITH 140 FIXED SEATS
 1 PER 400 S.F. OF FLOOR AREA OUTSIDE OF MAIN ASSEMBLY AREA
 1,100 SEATS 367 SPACES 395 SPACES
 MEETING ROOM (499 S.F.) 20 SPACES 20 SPACES
 TOTAL 387 SPACES 395 SPACES
 HANDICAP PARKING
 2 SPACES 4 SPACES
 TOTAL 9 SPACES 24 SPACES

ALL SPACES SHALL BE A MIN. OF 9'-0" WIDE x 18'-0" DEEP

NOTES:

- 1) THESE ARE NOT UTILITY OR DRAINAGE EASEMENTS AFFECTING THE PROJECT SITE.
- 2) THERE ARE NO PROTECTED OR ENDANGERED TREES WITHIN THE PROJECT SITE.
- 3) NO SIGN PROVIDED.

LEGAL DESCRIPTION:

APN: 252-041-14
 MARYGOLD ACRES 5 1/2 OF LOT 44, 4.77 AC. MORE OR LESS.

APN: 252-041-38
 MARYGOLD ACRES 1/2 OF THE N 1/2 OF LOT 44 ALONG WITH THE E 1/2 OF THE N 1/2 OF LOT 45, 4.78 AC. MORE OR LESS.

OWNER:

ST. GEORGE CATHOLIC CHURCH
 11201 EAST HIGHLAND AVENUE
 SAN BERNARDINO, CA 92404-4607
 (909) 478-1520

PROJECT INFORMATION:

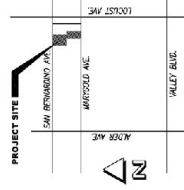
ZONING: R1/RV BLOOMINGTON M.P. RESIDENTIAL
 NORTH-EAST BLOOMINGTON RESIDENTIAL
 5501 BLVD. BLOOMINGTON RESIDENTIAL
 WEST-BLOOMINGTON RESIDENTIAL
 WEST-BLOOMINGTON MULTI-RESIDENTIAL

SETBACK: ?
FRONT: ? (VARIABLE)
REAR: ?
HEIGHT LIMIT: 45' MAX.
EARTH WORK: 6,500 CY CITY/8,500 FILL

PROJECT DESCRIPTION:

THE EXPANSION OF THE EXISTING CHURCH, CONSISTING OF TWO (2) PHASES. PHASE I WILL BE THE DEVELOPMENT OF THE SOUTH HALL, PARKING, LANDSCAPE, HANDICAP AND ADMP. PHASE II WILL BE THE ULTIMATE BUILD OUT PHASE II OF THE PROJECT WILL CONSIST OF BUILDING, STORAGE BUILDING, PARKING, LANDSCAPE AND HANDICAP.

VICINITY MAP



JOSEPH E. BONADIMAN & ASSOCIATES INC.
 consulting engineers
 231 N. ARROWHEAD AVE., SAN BERNARDINO, CA 92408-1073
 PHONE: (909) 882-3800 - FAX: (909) 381-1721

ST. GEORGE FONTANA
 17895 SAN BERNARDINO AVE.
 FONTANA, CA 92335
 APN: 025-041-58, 025-041-14

| NO | DESCRIPTION | BY | APPROVED | DATE |
|----|-------------|----|----------|------|
| | | | | |
| | | | | |
| | | | | |

PREPARED FOR: DIOCESE OF SAN BERNARDINO
 DRAWN BY: J.E.S. SCALE: 1" = 10'
 CHECKED BY: J.E.S. JOB NO.: 13384 SHEET: 1 OF 1 C1
 DATE: 07/19/13

SITE PLAN
 St. GEORGE CATHOLIC CHURCH
 Proposed Church Expansion
 City of Fontana, California
FIGURE 3



2.2 APPLICABLE POLICES, PLANS AND REGULATIONS

A combination of climatic factors and urbanization cause desert communities and the interior valleys to have some of the highest air pollution levels in the country. The South Coast Air Quality Management District (SCAQMD) monitors and enforces the federal and state air quality standards in association with federal, state, local, and regional government agencies. These agencies work jointly as well as individually to reduce air pollution through legislation, regulation, policy making, education, and a variety of programs. These agencies include:

Environmental Protection Agency (EPA) - Responsible for setting and enforcing the national standards for atmospheric pollutants, including the Clean Air Act (CAA), as amended.

California Air Resources Board (CARB) - Part of the California Environmental Protection Agency (Cal-EPA) and responsible for assuring implementation of the California Clean Air Act (CCAA), responding to federal regulations, and regulating emission standards.

SCAQMD - Primarily responsible for comprehensive air pollution control in the Salton Sea Air Basin (SSAB), South Coast Air Basin (SCAB) and Riverside and Los Angeles County portions of the South East Desert Air Basin (SEDAB). SCAQMD implements the CAA and CCAA and works directly with federal, state, and local agencies.

Local Governments - Have the authority and responsibility to reduce air pollution through their local land use decision-making authority.

Air emissions from the proposed project are subject to federal, state, and local rules and regulations as implemented through provisions of the federal Clean Air Act, California Clean Air Act, and the 2012 Air Quality Management Plan (AQMP) adopted and updated regularly by SCAQMD. The 2015 AQMP is currently being developed by the SCAQMD. The following is an overview of current rules and regulations.

Federal Clean Air Act. The federal Clean Air Act was established in an effort to assure that acceptable levels of air quality are maintained in all areas of the United States. These levels are based upon health-related exposure limits and are referred to as National Ambient Air Quality Standards (NAAQS). The NAAQS establish maximum allowable concentrations of specific pollutants in the atmosphere and characterize the amount of exposure deemed safe of the public. The NAAQS set standards for the following pollutants:

- Nitrogen dioxide (NO₂)
- Sulfur dioxide (SO₂)
- Particulate matter less than 10 microns, aerodynamic diameter (PM₁₀)
- Particulate matter less than 2.5 microns, aerodynamic diameter (PM_{2.5})
- Ozone (O₃)
- Lead (Pb)
- Carbon Monoxide (CO)

Primary and secondary NAAQS have been established and are shown in Table 1. Primary standards reflect levels of air quality deemed necessary by the EPA to provide an adequate margin of safety to

protect public health. Areas found to be in violation of primary standards are termed “nonattainment areas”. Secondary standards reflect levels of air quality necessary to protect public welfare from the known or anticipated adverse effects of a pollutant.

California Clean Air Act. Under the federal Clean Air Act, state and local authorities have primary responsibility for assuring that their respective regions are in attainment of, or have a verifiable plan to attain, the NAAQS. The federal Clean Air Act also provides state and local agencies authority to promulgate more stringent ambient air quality standards. The California Ambient Air Quality Standards (CAAQS) for the following pollutants are also included in Table 1.

Hydrogen sulfide (H₂S)
Vinyl chloride
Sulfates (SO₄)
Visibility-reducing particles

Under the provisions of the federal and California Clean Air Acts, areas not in attainment of the NAAQS or CAAQS are required to prepare an AQMP. An AQMP establishes an area-specific program to control existing and proposed sources of air emissions so that the NAAQS or CAAQS may be attained by the applicable target date. CARB and EPA are required to designate areas of the state as “attainment”, “nonattainment”, or “unclassified” for state and federal ambient air quality standards. An attainment designation for an area signifies that pollutant concentrations did not violate the standard for that pollutant. A nonattainment designation indicates that a pollutant concentration violated the standard at least once, excluding those occasions when a violation was caused by an extraordinary event. An unclassified designation indicates a lack of adequate air quality data or other information on which to base an attainment or nonattainment designation.

2.3 EXISTING AIR QUALITY

Air quality is determined primarily by the types and amounts of contaminants emitted into the atmosphere, the size and topography of the local air basin, and the pollutant-dispersing properties of local weather patterns. When airborne pollutants are produced in such volume that they are not dispersed by local meteorological conditions, air quality problems result. Dispersion of pollutants in the SCAB is influenced by periodic temperature inversions, persistent meteorological conditions and the local topography. As pollutants become more concentrated in the atmosphere, photochemical reactions occur, producing ozone and other oxidants.

The federal Clean Air Act was established in an effort to assure that acceptable levels of air quality are maintained in all areas of the United States. These levels are based upon health-related exposure limits and are referred to as NAAQS. The NAAQS establish maximum allowable concentrations of specific pollutants in the atmosphere and characterize the amount of exposure deemed safe for the public.

NAAQS have been set for a number of criteria pollutants. The following is a brief description of health effects and whether the SCAB is or is not in attainment for these pollutants:

**Table 1
State and Federal
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) ⁸ | 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}) ⁸ | 24-Hour | --- | Gravimetric or Beta Attenuation | 35 µg/m ³ | Same as Primary Standard | Inertial Separation and Gravimetric Analysis | |
| | Annual Arithmetic Mean | 12 µg/m ³ | | 12 µg/m ³ | | | 15 µg/m ³ |
| Carbon Monoxide (CO) | 1-Hour | 20 ppm (23 mg/m ³) | Non-Dispersive Infrared Photometry (NDIR) | 35 ppm (40 mg/m ³) | | Non-Dispersive Infrared Photometry (NDIR) | |
| | 8-Hour | 9.0 ppm (10 mg/m ³) | | 9 ppm (10 mg/m ³) | | | |
| | 8-Hour (Lake Tahoe) | 6 ppm (7 mg/m ³) | | – | | | |
| Nitrogen Dioxide (NO ₂) ⁹ | 1-Hour | 0.18 ppm (339 µg/m ³) | Gas Phase Chemiluminescence | 100 ppb (188 µg/m ³) | --- | Gas Phase Chemiluminescence | |
| | Annual Arithmetic Mean | 0.030 ppm (57 µg/m ³) | | 0.053 ppb (100 µg/m ³) | | | Same as Primary Standard |
| Sulfur Dioxide (SO ₂) ¹⁰ | 1-Hour | 0.25 ppm (655 µg/m ³) | Ultraviolet Fluorescence | 75 ppd (196 µg/m ³) | – | Ultraviolet Fluorescence, Spectrophotometry (Pararosaniline Method) | |
| | 3-Hour | --- | | -- | | | 0.5 ppm (1300 µg/m ³) |
| | 24-Hour | 0.04 ppm (105 µg/m ³) | | 0.14 ppm (for certain areas) ¹⁰ | --- | | |
| | Annual Arithmetic Mean | – | | 0.030 ppm (for certain areas) ¹⁰ | – | | |
| Lead ^{11,12} | 30-day average | 1.5 µg/m ³ | Atomic Absorption | – | – | High Volume Sampler and Atomic Absorption | |
| | Rolling 3-Month Average ¹¹ | -- | | 1.5 µg/m ³ (for certain areas) ¹² | | | Same as Primary Standard |
| | Calendar Quarter | – | | 0.15 µg/m ³ | | | |
| Visibility-Reducing Particles ¹³ | 8-Hour | See footnote 13 | Beta Attenuation and Transmittance through Filter Tape | No Federal Standards | | | |
| Sulfates | 24-Hour | 25 µg/m ³ | Ion Chromatography | | | | |
| Hydrogen Sulfide | 1-Hour | 0.03 ppm (42 µg/m ³) | Ultraviolet Fluorescence | | | | |
| Vinyl Chloride ¹¹ | 24-Hour | 0.01 ppm (26 µg/m ³) | Gas Chromatography | | | | |

Source: ARB, June, 4, 2013.

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM₁₀, PM_{2.5}, 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 arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site 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 µg/m³ is equal to or less than one. For PM_{2.5}, 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 U.S. 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 measurement method which can be shown to the satisfaction of the ARB 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 U.S. 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 U.S. EPA.

8. On December 14, 2012, the national annual PM_{2.5} primary standard was lowered from 15 µg/m³ to 12.0 µg/m³. The existing national 24-hour PM_{2.5} standards (primary and secondary) was retained at 25 µg/m³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour PM₁₀ standards (primary and secondary) of 150 µg/m³ also were retained. The form of the annual primary and secondary standards in the annual mean, averaged over 3 years.
9. To attain the 1-hour national standard, the 3-year average of the 98th percentile of the 1-hour daily maximum concentration at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
10. On June 2, 2010, a new 1-hour SO₂ standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved. Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the new primary national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
11. 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.
12. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
13. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

Ozone (O₃) is a toxic gas that irritates the lungs and damages materials and vegetation. Ozone is a secondary pollutant; it is not directly emitted. Ozone is the result of chemical reactions between other pollutants, most importantly hydrocarbons and NO₂, which occur only in the presence of bright sunlight. Pollutants emitted from areas cities react during transport downwind to produce the oxidant concentrations experienced in the area. Pollutants emitted in the Los Angeles area contribute to the ozone levels experienced in the SCAB.

Data summarized in Table 2 shows that the 1-hour State ozone standard was exceeded 28 to 61 days per year over the past five years at the Fontana monitoring station, the closest monitoring station to the project site. The SCAB is designated as a nonattainment basin for ozone. The federal 8-hour Ozone standard has been exceeded between 33 and 62 days per year during the past five years and the State 8-hour standard was exceeded between 52 to 88 days per year over the past five years.

Carbon Monoxide (CO) is a gas produced almost entirely from automobiles that interferes with the transfer of oxygen to the brain. Peak levels of CO occur in winter and are highest where there is heavy traffic. CO levels are not a concern in the project area due to the low traffic volumes and are therefore not monitored.

Table 2
Ozone Data
Fontana Air Monitoring Site
2008 – 2012

| Year | Days Exceeding One-Hour State Standard | Days Exceeding 8-Hour Federal Standard | Days Exceeding 8-Hour State Standard | Maximum One Hour Reading (ppm) |
|-------------|---|---|---|---------------------------------------|
| 2008 | 55 | 58 | 81 | 0.162 |
| 2009 | 45 | 48 | 65 | 0.142 |
| 2010 | 28 | 33 | 52 | 0.143 |
| 2011 | 39 | 39 | 53 | 0.144 |
| 2012 | 61 | 62 | 88 | 0.142 |

Source: CARB, 2013

State Standard – 0.09 ppm based on one-hour average. No Federal one-hour standard (removed in 2006).

State 8-Hour Standard 0.070 ppm; Federal 8-Hour standard is 0.075 ppm.

Nitrogen dioxide (NO₂) is a gas that can cause breathing difficulties at high levels. Peak readings of NO₂ occur in areas that have a high concentration of combustion sources (e.g., motor vehicle engines, power plants, refineries and other industrial operations). AAQS for NO₂ have not been violated since 1991.

Particulate Matter (PM₁₀) consists of extremely small-suspended particles or droplets 10 microns or smaller in diameter that can lodge in lungs contributing to respiratory problems. PM₁₀ arises from such sources as road dust, diesel soot, combustion products, abrasion of tires and brakes, construction operations and windstorms. PM₁₀ scatters light and significantly reduces visibility. PM₁₀ poses a health hazard, alone or in combination with other pollutants.

Data summarized in Table 3 shows that during the last five years PM₁₀ levels at the Fontana monitoring station didn't exceed the federal ambient air quality standards however, the State standard was exceeded 24 to 73 days per year over the past five years.

Fine Particulate Matter (PM_{2.5}) consists of extremely small suspended particles 2.5 microns in diameter and arise primarily from combustion sources. Data summarized in Table 4 from the Fontana station shows that during the last five years, PM_{2.5} levels exceeded the ambient air quality standards in the project area between 7 and 11 days per year over the past five years.

Sulfur dioxide (SO₂) is a gas produced when fossil fuels are burned. SO₂ is the main pollutant contributing to the formation of acid rain. No exceedances of this pollutant have occurred for decades and concentrations are well under Federal and State standards.

Lead (Pb) is a heavy metal used in industry and for years was a component in gasoline. Since the elimination of lead as a gasoline additive, lead in the atmosphere in southern California has been virtually eliminated.

Table 3
Particulate Matter (PM₁₀) Data
Fontana Air Monitoring Site
2008 – 2012

| Year | Days Exceeding State Standard | Days Exceeding Federal Standard | Maximum 24-Hour Reading (µg/m³) |
|-------------|--------------------------------------|--|---|
| 2008 | 73 | 0 | 75 |
| 2009 | 67 | 0 | 75 |
| 2010 | * | 0 | 62 |
| 2011 | 24 | 0 | 84 |
| 2012 | 30 | 0 | 67 |

State Standard – 50 µg/m³ based on 24-hour average
 Federal Standard – 150 µg/m³ based on 24-hour average
 µg/m³ = micrograms per cubic meter
 Measurements taken every 6 days.
 * Insufficient Data
 Source: CARB, 2013

Table 4
Fine Particulate Matter (PM_{2.5}) Data
Fontana Air Monitoring Site
2008 – 2012

| Year | Days Exceeding State Standard | Days Exceeding Federal Standard | Maximum 24-Hour Reading (µg/m³) |
|-------------|--------------------------------------|--|---|
| 2008 | N/A | 19 | 49.0 |
| 2009 | N/A | 6 | 46.4 |
| 2010 | N/A | 7 | 42.6 |
| 2011 | N/A | 7 | 60.1 |
| 2012 | N/A | 11 | 39.9 |

No 24-hour State Standard for PM_{2.5}.

Federal Standard – lowered to 35 µg/m³ in 2006; based on 24 hour average.

µg/m³ = micrograms per cubic meter

Source: CARB, 2013

Hydrogen Sulfide (H₂S) This pollutant is not commonly found in the ambient atmosphere but can originate from natural sources such as volcanoes, sulfur hot springs, or mineral brine associated with dry lakebeds. The CAAQS for H₂S is not health-based but rather an aesthetic one, because the compound smells like rotten eggs. This pollutant is not an issue in the project area.

Sulfates are produced by the reaction in the air of sulfur dioxide (SO₂), which is a component of acid rain. Sources for sulfur dioxide include coal burning power plants and diesel engines. California does not have any coal burning power plants and all diesel fuels sold in the state are now lower in sulfur. Sulfates are not an issue in the area.

Visibility-reducing particles are common in the SCAB due to the vast open desert area, especially during windy conditions. Particles reduce visibility, obscuring the desert scenery, including views of the mountains. Dust control measures reduce particulates in the area.

Reactive Organic Gases (ROG) is also considered in the air quality analysis of projects in the State. Ozone is a secondary pollutant that is the result of chemical reactions between other pollutants, most importantly reactive hydrocarbons (also referred to as ROG), and NO₂, which occurs only in the presence of bright sunlight. The result is the formation of smog. There are no federal or state air quality standards for hydrocarbons or ROG as there are for other pollutants, however the SCAQMD does have thresholds for determining the severity of emissions of several criteria pollutants including ROG.

AIR QUALITY ATTAINMENT PLANS

The project area is under the jurisdiction of the SCAQMD, which implements and enforces the applicable AQMP. The 1997 AQMP with the 1999 amendments is the current Federally-approved applicable air plan for ozone. The successor 2003 AQMP was adopted locally on August 1, 2003 by the governing board of the SCAQMD. CARB adopted the plan as part of the California State Implementation Plan on October 23, 2003. The PM₁₀ attainment plan from the

2003 AQMP received final approval from the U.S. EPA on November 14, 2005 with an effective date of December 14, 2005. As of February 14, 2007 the U.S. EPA had not acted on the ozone attainment plan of the 2003 AQMP; on the same date, CARB announced that it was rescinding the ozone attainment plan from the 2003 AQMP with the intention to expedite approval of the 2007 AQMP. The 2007 AQMP was adopted by the SCAQMD on June 1, 2007. CARB adopted the plan as a part of the California State Implementation Plan on September 27, 2007. The State Implementation Plan was submitted to the U.S. EPA on November 16, 2007. The U.S. EPA has not taken action on the 2007 AQMP at this time. The SCAQMD prepared the 2012 AQMP that was adopted by the AQMD Governing Board on December 7, 2012. Control measure IND-01 was approved for adoption and inclusion in the Final 2012 AQMP at the February 1, 2013 Governing Board meeting.

SCAQMD staff is initiating an early development process for the 2015 AQMP, which will be a comprehensive and integrated Plan primarily focused on addressing the ozone standards. The Plan will be a regional and multi-agency effort (AQMD, California Air Resources Board, Southern California Association of Governments (SCAG) and US Environmental Protection Agency). State and federal planning requirements include developing control strategies, attainment demonstrations, reasonable further progress, and maintenance plans. The 2015 AQMP will incorporate the latest scientific and technical information and planning assumptions, including the latest applicable growth assumptions, Regional Transportation Plan/Sustainable Communities Strategy, and updated emission inventory methodologies for various source categories.

The primary guidance for implementing the air quality standards in relation to the California Environmental Quality Act (CEQA) is the 1993 SCAQMD CEQA Air Quality Handbook. This handbook is being revised and updated, but until the new edition is published, the 1993 version as updated, is still a valid reference and directive.

SCAQMD regulates emissions from stationary sources through the permitting process and requires permits to Construct/Operate for all stationary equipment with the potential to release air contaminants. The SCAQMD cannot issue an air quality permit to operate to projects that may create a significant air quality impact or interfere with the AQMP progress toward attainment of the federal air quality standards. Fugitive dust emission sources are required to implement best available fugitive dust control measures as recommended in Rule 403.

Climate Change and Greenhouse Gases

Gases that trap heat in the atmosphere are often called Greenhouse Gases (GHG); analogous to a greenhouse. GHG are emitted by natural processes and human activities. The accumulation of GHG in the atmosphere regulates the earth's temperature. Without these natural GHG, the Earth's surface would be approximately 61°F cooler (CA 2006). Emissions from human activities such as electricity production and vehicles have elevated the concentration of these gases in the atmosphere.

GHG have varying global warming potential (GWP). The GWP is the potential of a gas or aerosol to trap heat in the atmosphere; it is the "cumulative radiative forcing effects of a gas over

a specified time horizon resulting from the emission of a unit mass of gas relative to a reference gas” (EPA 2006a). The reference gas for GWP is carbon dioxide; carbon dioxide has a GWP of one. For example, methane has a GWP of 21, which means that it has a greater global warming effect than carbon dioxide on a molecule per molecule basis. One teragram of carbon dioxide equivalent (Tg CO₂ Eq.) is the emissions of the gas multiplied by the GWP. One teragram is equal to one million metric tons. The carbon dioxide equivalent is a good way to assess emissions because it gives weight to the GWP of the gas. The atmospheric lifetime and GWP of selected GHG are summarized in Table 5. As shown in the table, GWP ranges from 1 (carbon dioxide) to 23,900 (sulfur hexafluoride).

**Table 5
Global Warming Potentials and Atmospheric
Lifetimes of Select Greenhouse Gases**

| Gas | Atmospheric Lifetime (years) | Global Warming Potential (100 year time horizon) |
|--|---|---|
| Carbon Dioxide | 50 – 200 | 1 |
| Methane | 12 ± 3 | 21 |
| Nitrous Oxide | 120 | 310 |
| HFC-23 | 264 | 11700 |
| HFC-134a | 14.6 | 1,300 |
| HFC-152a | 1.5 | 140 |
| PFC: Tetrafluoromethane (CF ₄) | 50000 | 6,500 |
| PFC: Hexafluoroethane (C ₂ F ₆) | 10000 | 9,200 |
| Sulfur Hexafluoride (SF ₆) | 3200 | 23,900 |

Source: EPA 2006b

Water vapor is the most abundant, important, and variable GHG in the atmosphere. It is not considered a pollutant; in the atmosphere it maintains a climate necessary for life. The main source of water vapor is evaporation from the oceans (approximately 85 percent). Other sources include evaporation from other water bodies, sublimation (change from solid to gas) from ice and snow, and transpiration from plant leaves.

Carbon dioxide (CO₂) is an odorless, colorless natural GHG. Natural sources include the following: decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources of carbon dioxide are from burning coal, oil, natural gas, and wood. Concentrations are currently around 370 ppm; some say that concentrations may increase to 540 ppm by 2100 as a direct result of anthropogenic sources (IPCC 2001). Some predict that this will result in an average global temperature rise of at least 2° Celsius (IPCC 2001).

Methane is a flammable gas and is the main component of natural gas. When one molecule of methane is burned in the presence of oxygen, one molecule of carbon dioxide and two molecules of water are released. There are no health effects from methane. A natural source of methane is

from the anaerobic decay of organic matter. Geological deposits known as natural gas fields contain methane, which is extracted for fuel. Other sources are from landfills, fermentation of manure, and cattle.

Nitrous oxide (N₂O), also known as laughing gas, is a colorless GHG. Higher concentrations can cause dizziness, euphoria, and sometimes slight hallucinations. Nitrous oxide is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its atmospheric load. It is used in rocket engines, as an aerosol spray propellant, and in race cars.

Chlorofluorocarbons (CFCs) are gases formed synthetically by replacing all hydrogen atoms in methane or ethane with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the earth's surface). CFCs were first synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning solvents. They destroy stratospheric ozone; therefore their production was stopped as required by the Montreal Protocol.

Hydrofluorocarbons (HFCs) are synthetic man-made chemicals that are used as a substitute for CFCs for automobile air conditioners and refrigerants.

Perfluorocarbons (PFCs) have stable molecular structures and do not break down through the chemical processes in the lower atmosphere. High-energy ultraviolet rays about 60 kilometers above Earth's surface are able to destroy the compounds. PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane and hexafluoroethane. Concentrations of tetrafluoromethane in the atmosphere are over 70 ppt (EPA 2006b). The two main sources of PFCs are primary aluminum production and semiconductor manufacture.

Sulfur hexafluoride (SF₆) is an inorganic, odorless, colorless, nontoxic, nonflammable gas. It also has the highest GWP of any gas evaluated, 23,900. Concentrations in the 1990s were about 4 ppt (EPA 2006b). Sulfur hexafluoride is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.

Ozone is a GHG; however, unlike the other GHG, ozone in the troposphere is relatively short-lived and therefore is not global in nature. According to CARB, it is difficult to make an accurate determination of the contribution of ozone precursors (NO_x and VOCs) to global warming (CARB 2004). Therefore, project emissions of ozone precursors would not significantly contribute to global climate change.

Aerosols are particles emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light. Cloud formation can also be affected by aerosols. Sulfate aerosols are emitted when fuel with sulfur in it is burned. Black carbon (or soot) is emitted during bio

mass burning incomplete combustion of fossil fuels. Particulate matter regulation has been lowering aerosol concentrations in the United States; however, global concentrations are likely increasing.

County of San Bernardino “Greenhouse Gas Emissions Reduction Plan

According to the County of San Bernardino “Greenhouse Gas Emissions Reduction Plan September 2011,” measurable reductions of GHG emissions will be achieved through the County’s GHG Development Review Process (DRP) by applying appropriate reduction requirements as part of the discretionary approval of new development projects. Through its development review process, the County will implement CEQA requiring new development projects to quantify project GHG emissions and adopt feasible mitigation to reduce project emissions below a level of significance. Mitigation of GHG emissions impacts through the DRP provides one of the most substantial reduction strategies for reducing external emissions. The DRP procedures for evaluating GHG impacts and determining significance for CEQA purposes will be streamlined by (1) applying a uniform set of performance standards to all development projects, and (2) utilizing Screening Tables to mitigate project GHG emissions. Projects will have the option of preparing a project-specific technical analysis to quantify and mitigate GHG emissions. A review standard of 3,000 metric tons per years (MTY) will be used

Health and Other Effects

The potential health effects from global climate change may arise from temperature increases, climate-sensitive diseases, extreme events, and air quality. There may be direct temperature effects through increases in average temperature leading to more extreme heat waves and less extreme cold spells. Those living in warmer climates are likely to experience more stress and heat-related problems (i.e., heat rash and heat stroke). In addition, climate sensitive diseases may increase, such as those spread by mosquitoes and other disease carrying insects. Those diseases include malaria, dengue fever, yellow fever, and encephalitis. Extreme events such as flooding and hurricanes can displace people and agriculture, which would have negative consequences. Drought in some areas may increase, which would decrease water and food availability. Global warming may also contribute to air quality problems from increased frequency of smog and particulate air pollution (EPA 2006c).

3.0 AIR QUALITY IMPACT EVALUATION

3.1 STANDARDS OF SIGNIFICANCE

Air quality analyses for the proposed project have been conducted in accordance with the CEQA Air Quality Handbook prepared by the SCAQMD (1993 as updated). SCAQMD has established the following emissions criteria for determining whether the impacts from a project would be considered significant under CEQA:

Thresholds of Significance for Construction:

- 75 pounds per day of ROC
- 100 pounds per day of NO_x

- 550 pounds per day of CO
- 150 pounds per day of SO_x
- 150 pounds per day of PM₁₀
- 55 pounds per day of PM_{2.5}

Thresholds of Significance for Operations:

- 55 pounds per day of ROC
- 55 pounds per day of NO_x
- 550 pounds per day of CO
- 150 pounds per day of SO_x
- 150 pounds per day of PM₁₀
- 55 pounds per day of PM_{2.5}

Greenhouse Gas Emissions

- 3,000 metric tons of CO₂ equivalent (MTCO_{2e}) (County of San Bernardino “Greenhouse Gas Emissions Reduction Plan September 2011)

3.2 CONSTRUCTION AIR QUALITY EVALUATION

The proposed project is the expansion of St. George Church by 927 seats. Emissions generated by the proposed project would be from short-term construction activities and from operation of the Church.

The proposed project was screened using the CalEEMod version 2011.1.1 emissions model. The criteria pollutants analyzed included reactive organic gases (ROG), nitrous oxides (NO_x), carbon monoxide (CO), particulates (PM₁₀ and PM_{2.5}), carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O). Construction emissions are screened and quantified to document the effectiveness of control measures.

The CalEEMod model allows the user to set certain defaults and run the model to incorporate SCAQMD required rules and regulations. Therefore, per SCAQMD Rules 402 and 403, the mitigation requiring that exposed surfaces during construction be watered twice per day was “turned on”. The developer and its contractor will be required to comply with mandated SCAQMD rules and regulations, including but not limited to, Rules 402 and 403. Therefore, the following dust control conditions applicable to the site activities as recommended by Rules 402 and 403 shall also be implemented:

1. The project proponent shall ensure that any portion of the site to be graded shall be pre-watered prior to the onset of grading activities.
 - (a) The project proponent shall ensure that watering of the site or other soil stabilization method shall be employed on an on-going basis after the initiation of any grading activity on the site at least 2x per day. Portions of the site that are actively being graded shall be watered regularly to ensure that a crust is formed on the ground surface, and shall be watered at the end of each workday.

- (b) The project proponent shall ensure that all disturbed areas are treated to prevent erosion until the site is constructed upon.
- (c) The project proponent shall ensure that landscaped areas are installed as soon as possible to reduce the potential for wind erosion.
- (d) The project proponent shall ensure that all grading activities are suspended during first and second stage ozone episodes or when winds exceed 25 miles per hour.

During construction, exhaust emissions from construction vehicles and equipment and fugitive dust generated by equipment traveling over exposed surfaces, would increase NO_x and PM₁₀ levels in the area. The following mitigation measures shall be implemented to reduce impacts.

- 2. To reduce emissions, all equipment used in grading and construction must be tuned and maintained to the manufacturer's specification to maximize efficient burning of vehicle fuel. Site development will be limited to one acre disturbed per day.
- 3. The contractor shall utilize (as much as possible) pre-coated building materials and coating transfer or spray equipment with high transfer efficiency, such as high volume, low pressure (HVLP) spray method, or manual coatings application such as paint brush, hand roller, trowel, dauber, rag, or sponge.
- 4. The contractor shall utilize water-based or low VOC coating per SCAQMD Rule 1113. The following measures shall also be implemented:
 - Use Super-Compliant VOC paints whenever possible.
 - If feasible, avoid painting during peak smog season: July, August, and September.
 - Recycle leftover paint. Take any left-over paint to a household hazardous waste center; do not mix leftover water-based and oil-based paints.
 - Keep lids closed on all paint containers when not in use to prevent VOC emissions and excessive odors.
 - For water-based paints, clean up with water only. Whenever possible, do not rinse the clean-up water down the drain or pour it directly into the ground or the storm drain. Set aside the can of clean-up water and take it to a hazardous waste center (www.cleanup.org).
 - Recycle the empty paint can.
 - Look for non-solvent containing stripping products.
 - Use Compliant Low-VOC cleaning solvents to clean paint application equipment.
 - Keep all paint and solvent laden rags in sealed containers to prevent VOC emissions.
- 5. The project proponent shall ensure that existing power sources are utilized where feasible via temporary power poles to avoid on-site diesel power generation.
- 6. The project proponent shall ensure that construction personnel are informed of ride sharing and transit opportunities.

7. All buildings on the project site shall conform to energy use guidelines in Title 24 of the California Administrative Code as updated to reduce energy consumption and reduce GHG emissions.
8. The operator shall maintain and effectively utilize and schedule on site equipment and delivery trucks in order to minimize exhaust emissions from truck idling.

Modeled Analysis

The emissions calculations for the construction phase include fugitive dust from grading and exhaust emissions from on-site equipment and worker travel and are summarized in Table 6. The fugitive dust emissions are based on earthwork activities per day. The proposed construction activities will include implementation of the “best available fugitive dust control requirements” listed above and the developer will comply with SCAQMD rules and regulations particularly Rules 402 and 403 that require controls for fugitive dust. These standard conditions will reduce emissions to the lowest amounts feasible. Construction emissions were screened and quantified to document the effectiveness of control measures. For additional information, refer to Appendix A for the CalEEMod emissions model output data.

Table 6
Construction Emissions Summary
(Pounds Per Day)

| Source/Phase | ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} |
|--------------------------------|-------------|-----------------|-------------|-----------------|------------------|-------------------|
| Site Preparation | 11.1 | 89.9 | 51.9 | 0.0 | 13.0 | 9.1 |
| Grading | 7.3 | 55.5 | 34.0 | 0.0 | 6.5 | 4.8 |
| Building Construction | 6.4 | 42.0 | 25.5 | 0.0 | 3.3 | 2.9 |
| Paving | 6.3 | 37.6 | 22.5 | 0.0 | 3.5 | 3.3 |
| Architectural Coating | 54.8 | 3.2 | 2.1 | 0.0 | 0.3 | 0.3 |
| Highest Value (lbs/day) | 54.8 | 89.9 | 51.9 | 0.0 | 13.0 | 9.1 |
| SCAQMD Threshold | 75 | 100 | 550 | 150 | 150 | 55 |
| Significant | No | No | No | No | No | No |

Source: CalEEMod 2011.1.1

Phases don't overlap and represent the highest concentration.

Greenhouse Gas Emissions

The County of San Bernardino “Greenhouse Gas Emissions Reduction Plan September 2011,” measurable reductions of GHG emissions will be achieved through the County’s GHG DRP by applying appropriate reduction requirements as part of the discretionary approval of new development projects. Through its development review process, the County will implement CEQA requiring new development projects to quantify project GHG emissions and adopt feasible mitigation to reduce project emissions below a level of significance. Mitigation of GHG emissions impacts through the DRP provides one of the most substantial reduction strategies for reducing external emissions. The DRP procedures for evaluating GHG impacts and determining significance for CEQA purposes will be streamlined by (1) applying a uniform set of performance standards to all development projects, and (2) utilizing Screening Tables to mitigate project GHG emissions. Projects will have the option of preparing a project-specific technical analysis to quantify and mitigate GHG emissions. A review standard of 3,000 metric tons per

years (MTY) will be used. The complete Development Review Process, including the use of performance standards, for assessing and mitigating GHG emissions is outlined below.

“All development projects, including those otherwise determined to be exempt from CEQA will be subject to applicable Development Code provisions, including the GHG performance standards, and state requirements, such as the California Building Code requirements for energy efficiency. With the application of the GHG performance standards, projects that are exempt from CEQA and small projects that do not exceed 3,000 MTCO₂e per year will be considered to be consistent with the Plan and determined to have a less than significant individual and cumulative impact for GHG emissions”.

Project GHG emissions are shown in Table 7. A threshold of 3,000 MTCO₂e per year has been adopted by the County as potentially significant to global warming. Utilizing the CalEEMod model, construction of the proposed project would not exceed the County’s thresholds.

**Table 7
Greenhouse Gas Construction Emissions
MT Per Year**

| Source/Phase | CO ₂ | CH ₄ | N ₂ O |
|--------------------------------|-----------------|-----------------|------------------|
| Site Preparation | 37.2 | 0.0 | 0.0 |
| Grading | 49.1 | 0.0 | 0.0 |
| Building Construction | 468.7 | 0.0 | 0.0 |
| Paving | 28.0 | 0.0 | 0.0 |
| Architectural Coating | 3.0 | 0.0 | 0.0 |
| Sub Total MT | 586.0 | | |
| Total (CO₂e) | 587.6 | | |
| SCAQMD Threshold | 3,000 | | |
| Significant | No | | |

Source: CalEEMod 2011.1.1

As shown in Table 6 and Table 7, construction emissions are less than the SCAQMD thresholds and would be considered less than significant.

3.3 OPERATIONS AIR QUALITY EVALUATION

The proposed project will not include the manufacture or production of any products on-site; therefore, no industrial type emissions will be generated. Albert Wilson & Associates prepared a Traffic Impact Analysis (TIA) and used Land Use 560 (Church) to assess the operational trips. This is consistent with CalEEMod model. Therefore, the CalEEMod default rates were used. Operational emissions include Mobile (vehicle trips), Energy (generation and distribution of energy to use), Area (Church in use), and for GHG emissions, water (generation and distribution of water to the Church), and waste (collecting and hauling waste to the landfill) emissions. Emissions associated with the operational activities are listed in Table 8 and Table 9.

**Table 8
Operations Emissions Summary
(Pounds Per Day)**

| Source | ROG | NO_x | CO | SO₂ | PM₁₀ | PM_{2.5} |
|------------------------------|-------------|-----------------------|--------------|-----------------------|------------------------|-------------------------|
| Mobile | 12.9 | 37.6 | 120.6 | 0.2 | 20.2 | 2.0 |
| Energy | 0.1 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |
| Area | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Value (lbs/day) | 14.2 | 38.0 | 120.9 | 0.2 | 20.2 | 2.0 |
| SCAQMD Threshold | 55 | 55 | 550 | 150 | 150 | 55 |
| Significant | No | No | No | No | No | No |

Source: CalEEMod 2011.1.1

**Table 9
Greenhouse Gas Operational Emissions
“MT Per Year”**

| Source | CO₂ | CH₄ | N₂O |
|---------------------------------------|-----------------------|-----------------------|-----------------------|
| Area | 0.0 | 0.0 | 0.0 |
| Energy | 234.0 | 0.0 | 0.0 |
| Mobile | 1,300.9 | 0.1 | 0.0 |
| Waste | 121.9 | 7.2 | 0.0 |
| Water | 13.0 | 0.0 | 0.0 |
| Total in MT Per Year | 1,677 | | |
| Total CO₂e Per Year | 1,825.3 | | |
| SCAQMD Threshold (tons) | 3,000 | | |
| Significant | N/A | | |

Source: CalEEMod 2011.1.1

As shown in Table 8 and Table 9, operational emissions of the proposed project would not exceed thresholds.

3.4 PROJECT CUMULATIVE IMPACT

The land use is required to comply with current SCAQMD and San Bernardino County GHG regulations and will incorporate District rules and regulations to minimize impacts to air quality discussed herein. The expansion of the St. George Church is not anticipated to generate cumulative significant impacts as the impacted intersection will operate at an acceptable Level of Service (Albert Wilson & Associates TIA July 2013). Therefore, cumulatively impacts are anticipated to be less than significant.

4.0 REPORT SUMMARY

Construction emissions from the proposed project will not exceed the CEQA thresholds of significance. Construction emissions are considered short-term. Potential dust emissions would be further reduced by implementation of standard dust control measures (water exposed surfaces twice per day) as required for all projects within the SCAB. Therefore, potential impacts from construction activities are determined to be less than significant and no further analysis is required.

The operational emissions from the proposed project would not exceed SCAQMD regional thresholds of significance. No impacts to local or regional air quality are anticipated during project operations. The proposed project as well as all projects within the SCAB will be required to comply with current SCAQMD regulations and dust control measures. Therefore, potential impacts from operational activities are determined to be less than significant and no further analysis is required.

5.0 REFERENCES

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APPENDIX A
MODELING RESULTS

St. George Church
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric |
|------------------|------|--------|
| Place of Worship | 927 | Seat |

1.2 Other Project Characteristics

| | | | | | |
|---------------------|-------|----------------------------------|-----|------------------------|----------------------------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Utility Company | Southern California Edison |
| Climate Zone | 10 | Precipitation Freq (Days) | 32 | | |

1.3 User Entered Comments

- Project Characteristics -
- Land Use - Acreage changed to reflect project site
- Construction Phase -
- Vehicle Trips -
- Construction Off-road Equipment Mitigation -
- Waste Mitigation -

Solid Waste - Source: www.calrecycle.ca.gov/wastechar/wastegenrates/institution.htm

Education: 3.55 lb/emp/day; 3.55*365days a year=1,295.8 lbs/year; 1,295.8*927seats=1,201,160.3lb/year or 600.6 tons/year

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2011 | 0.86 | 5.83 | 3.65 | 0.01 | 0.20 | 0.38 | 0.58 | 0.09 | 0.38 | 0.47 | 0.00 | 554.99 | 554.99 | 0.07 | 0.00 | 556.46 |
| 2012 | 0.61 | 0.39 | 0.24 | 0.00 | 0.00 | 0.03 | 0.04 | 0.00 | 0.03 | 0.03 | 0.00 | 30.99 | 30.99 | 0.01 | 0.00 | 31.10 |
| Total | 1.47 | 6.22 | 3.89 | 0.01 | 0.20 | 0.41 | 0.62 | 0.09 | 0.41 | 0.50 | 0.00 | 585.98 | 585.98 | 0.08 | 0.00 | 587.56 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2011 | 0.86 | 5.83 | 3.65 | 0.01 | 0.11 | 0.38 | 0.50 | 0.04 | 0.38 | 0.42 | 0.00 | 554.99 | 554.99 | 0.07 | 0.00 | 556.46 |
| 2012 | 0.61 | 0.39 | 0.24 | 0.00 | 0.00 | 0.03 | 0.04 | 0.00 | 0.03 | 0.03 | 0.00 | 30.99 | 30.99 | 0.01 | 0.00 | 31.10 |
| Total | 1.47 | 6.22 | 3.89 | 0.01 | 0.11 | 0.41 | 0.54 | 0.04 | 0.41 | 0.45 | 0.00 | 585.98 | 585.98 | 0.08 | 0.00 | 587.56 |

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|---------------|-----------------|-----------------|-------------|-------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.22 | 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 |
| Energy | 0.01 | 0.08 | 0.06 | 0.00 | | 0.00 | 0.01 | | 0.00 | 0.01 | 0.00 | 233.92 | 233.92 | 0.01 | 0.00 | 235.37 |
| Mobile | 0.99 | 2.93 | 10.15 | 0.01 | 1.38 | 0.11 | 1.49 | 0.05 | 0.11 | 0.16 | 0.00 | 1,300.85 | 1,300.85 | 0.07 | 0.00 | 1,302.37 |
| Waste | | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 121.92 | 0.00 | 121.92 | 7.21 | 0.00 | 273.22 |
| Water | | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 12.97 | 12.97 | 0.05 | 0.00 | 14.33 |
| Total | 1.22 | 3.01 | 10.21 | 0.01 | 1.38 | 0.11 | 1.50 | 0.05 | 0.11 | 0.17 | 121.92 | 1,547.74 | 1,669.66 | 7.34 | 0.00 | 1,825.29 |

2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|---------------|-----------------|-----------------|-------------|-------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.22 | 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 |
| Energy | 0.01 | 0.08 | 0.06 | 0.00 | | 0.00 | 0.01 | | 0.00 | 0.01 | 0.00 | 233.92 | 233.92 | 0.01 | 0.00 | 235.37 |
| Mobile | 0.99 | 2.93 | 10.15 | 0.01 | 1.38 | 0.11 | 1.49 | 0.05 | 0.11 | 0.16 | 0.00 | 1,300.85 | 1,300.85 | 0.07 | 0.00 | 1,302.37 |
| Waste | | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 121.92 | 0.00 | 121.92 | 7.21 | 0.00 | 273.22 |
| Water | | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 12.97 | 12.97 | 0.05 | 0.00 | 14.33 |
| Total | 1.22 | 3.01 | 10.21 | 0.01 | 1.38 | 0.11 | 1.50 | 0.05 | 0.11 | 0.17 | 121.92 | 1,547.74 | 1,669.66 | 7.34 | 0.00 | 1,825.29 |

3.0 Construction Detail

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.09 | 0.00 | 0.09 | 0.05 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Off-Road | 0.05 | 0.45 | 0.25 | 0.00 | | 0.02 | 0.02 | | 0.02 | 0.02 | 0.00 | 36.27 | 36.27 | 0.00 | 0.00 | 36.36 |
| Total | 0.05 | 0.45 | 0.25 | 0.00 | 0.09 | 0.02 | 0.11 | 0.05 | 0.02 | 0.07 | 0.00 | 36.27 | 36.27 | 0.00 | 0.00 | 36.36 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.96 | 0.96 | 0.00 | 0.00 | 0.96 |
| Total | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.96 | 0.96 | 0.00 | 0.00 | 0.96 |

3.2 Site Preparation - 2011

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.04 | 0.00 | 0.04 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Off-Road | 0.05 | 0.45 | 0.25 | 0.00 | | 0.02 | 0.02 | | 0.02 | 0.02 | 0.00 | 36.27 | 36.27 | 0.00 | 0.00 | 36.36 |
| Total | 0.05 | 0.45 | 0.25 | 0.00 | 0.04 | 0.02 | 0.06 | 0.02 | 0.02 | 0.04 | 0.00 | 36.27 | 36.27 | 0.00 | 0.00 | 36.36 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.96 | 0.96 | 0.00 | 0.00 | 0.96 |
| Total | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.96 | 0.96 | 0.00 | 0.00 | 0.96 |

3.3 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.07 | 0.00 | 0.07 | 0.03 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Off-Road | 0.07 | 0.55 | 0.33 | 0.00 | | 0.03 | 0.03 | | 0.03 | 0.03 | 0.00 | 47.52 | 47.52 | 0.01 | 0.00 | 47.65 |
| Total | 0.07 | 0.55 | 0.33 | 0.00 | 0.07 | 0.03 | 0.10 | 0.03 | 0.03 | 0.06 | 0.00 | 47.52 | 47.52 | 0.01 | 0.00 | 47.65 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.59 | 1.59 | 0.00 | 0.00 | 1.60 |
| Total | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.59 | 1.59 | 0.00 | 0.00 | 1.60 |

3.3 Grading - 2011

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.03 | 0.00 | 0.03 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Off-Road | 0.07 | 0.55 | 0.33 | 0.00 | | 0.03 | 0.03 | | 0.03 | 0.03 | 0.00 | 47.52 | 47.52 | 0.01 | 0.00 | 47.65 |
| Total | 0.07 | 0.55 | 0.33 | 0.00 | 0.03 | 0.03 | 0.06 | 0.02 | 0.03 | 0.05 | 0.00 | 47.52 | 47.52 | 0.01 | 0.00 | 47.65 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.59 | 1.59 | 0.00 | 0.00 | 1.60 |
| Total | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.59 | 1.59 | 0.00 | 0.00 | 1.60 |

3.4 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.70 | 4.62 | 2.76 | 0.00 | | 0.32 | 0.32 | | 0.32 | 0.32 | 0.00 | 421.43 | 421.43 | 0.06 | 0.00 | 422.63 |
| Total | 0.70 | 4.62 | 2.76 | 0.00 | | 0.32 | 0.32 | | 0.32 | 0.32 | 0.00 | 421.43 | 421.43 | 0.06 | 0.00 | 422.63 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor | 0.01 | 0.18 | 0.10 | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.00 | 22.78 | 22.78 | 0.00 | 0.00 | 22.79 |
| Worker | 0.02 | 0.02 | 0.19 | 0.00 | 0.03 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 24.44 | 24.44 | 0.00 | 0.00 | 24.48 |
| Total | 0.03 | 0.20 | 0.29 | 0.00 | 0.04 | 0.01 | 0.04 | 0.00 | 0.01 | 0.01 | 0.00 | 47.22 | 47.22 | 0.00 | 0.00 | 47.27 |

3.4 Building Construction - 2011

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.70 | 4.62 | 2.76 | 0.00 | | 0.32 | 0.32 | | 0.32 | 0.32 | 0.00 | 421.43 | 421.43 | 0.06 | 0.00 | 422.63 |
| Total | 0.70 | 4.62 | 2.76 | 0.00 | | 0.32 | 0.32 | | 0.32 | 0.32 | 0.00 | 421.43 | 421.43 | 0.06 | 0.00 | 422.63 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor | 0.01 | 0.18 | 0.10 | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.00 | 22.78 | 22.78 | 0.00 | 0.00 | 22.79 |
| Worker | 0.02 | 0.02 | 0.19 | 0.00 | 0.03 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 24.44 | 24.44 | 0.00 | 0.00 | 24.48 |
| Total | 0.03 | 0.20 | 0.29 | 0.00 | 0.04 | 0.01 | 0.04 | 0.00 | 0.01 | 0.01 | 0.00 | 47.22 | 47.22 | 0.00 | 0.00 | 47.27 |

3.5 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | 0.00 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.5 Paving - 2011

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | 0.00 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.5 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.06 | 0.36 | 0.21 | 0.00 | | 0.03 | 0.03 | | 0.03 | 0.03 | 0.00 | 26.46 | 26.46 | 0.00 | 0.00 | 26.56 |
| Paving | 0.00 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.06 | 0.36 | 0.21 | 0.00 | | 0.03 | 0.03 | | 0.03 | 0.03 | 0.00 | 26.46 | 26.46 | 0.00 | 0.00 | 26.56 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.56 | 1.56 | 0.00 | 0.00 | 1.56 |
| Total | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.56 | 1.56 | 0.00 | 0.00 | 1.56 |

3.5 Paving - 2012

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.06 | 0.36 | 0.21 | 0.00 | | 0.03 | 0.03 | | 0.03 | 0.03 | 0.00 | 26.46 | 26.46 | 0.00 | 0.00 | 26.56 |
| Paving | 0.00 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.06 | 0.36 | 0.21 | 0.00 | | 0.03 | 0.03 | | 0.03 | 0.03 | 0.00 | 26.46 | 26.46 | 0.00 | 0.00 | 26.56 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.56 | 1.56 | 0.00 | 0.00 | 1.56 |
| Total | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.56 | 1.56 | 0.00 | 0.00 | 1.56 |

3.6 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.54 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Off-Road | 0.01 | 0.03 | 0.02 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 2.55 | 2.55 | 0.00 | 0.00 | 2.56 |
| Total | 0.55 | 0.03 | 0.02 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 2.55 | 2.55 | 0.00 | 0.00 | 2.56 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.42 | 0.00 | 0.00 | 0.42 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.42 | 0.00 | 0.00 | 0.42 |

3.6 Architectural Coating - 2012

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | | |
| Archit. Coating | 0.54 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Off-Road | 0.01 | 0.03 | 0.02 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 2.55 | 2.55 | 0.00 | 0.00 | 0.00 | 2.56 |
| Total | 0.55 | 0.03 | 0.02 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 2.55 | 2.55 | 0.00 | 0.00 | 0.00 | 2.56 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e | |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.00 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.42 | 0.00 | 0.00 | 0.00 | 0.42 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.42 | 0.00 | 0.00 | 0.00 | 0.42 |

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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.99 | 2.93 | 10.15 | 0.01 | 1.38 | 0.11 | 1.49 | 0.05 | 0.11 | 0.16 | 0.00 | 1,300.85 | 1,300.85 | 0.07 | 0.00 | 1,302.37 |
| Unmitigated | 0.99 | 2.93 | 10.15 | 0.01 | 1.38 | 0.11 | 1.49 | 0.05 | 0.11 | 0.16 | 0.00 | 1,300.85 | 1,300.85 | 0.07 | 0.00 | 1,302.37 |
| Total | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|------------------|-------------------------|---------------|-----------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Place of Worship | 565.47 | 834.30 | 1714.95 | 2,557,351 | 2,557,351 |
| Total | 565.47 | 834.30 | 1,714.95 | 2,557,351 | 2,557,351 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | |
|------------------|------------|------------|-------------|------------|------------|-------------|
| | 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 |
| Place of Worship | 8.90 | 13.30 | 7.40 | 0.00 | 95.00 | 5.00 |

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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 150.75 | 150.75 | 0.01 | 0.00 | 151.70 |
| Electricity Unmitigated | | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 150.75 | 150.75 | 0.01 | 0.00 | 151.70 |
| NaturalGas Mitigated | 0.01 | 0.08 | 0.06 | 0.00 | | 0.00 | 0.01 | | 0.00 | 0.01 | 0.00 | 83.17 | 83.17 | 0.00 | 0.00 | 83.68 |
| NaturalGas Unmitigated | 0.01 | 0.08 | 0.06 | 0.00 | | 0.00 | 0.01 | | 0.00 | 0.01 | 0.00 | 83.17 | 83.17 | 0.00 | 0.00 | 83.68 |
| 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Place of Worship | 1.55858e+006 | 0.01 | 0.08 | 0.06 | 0.00 | | 0.00 | 0.01 | | 0.00 | 0.01 | 0.00 | 83.17 | 83.17 | 0.00 | 0.00 | 83.68 |
| Total | | 0.01 | 0.08 | 0.06 | 0.00 | | 0.00 | 0.01 | | 0.00 | 0.01 | 0.00 | 83.17 | 83.17 | 0.00 | 0.00 | 83.68 |

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Land Use | kBTU | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Place of Worship | 1.55858e+006 | 0.01 | 0.08 | 0.06 | 0.00 | | 0.00 | 0.01 | | 0.00 | 0.01 | 0.00 | 83.17 | 83.17 | 0.00 | 0.00 | 83.68 |
| Total | | 0.01 | 0.08 | 0.06 | 0.00 | | 0.00 | 0.01 | | 0.00 | 0.01 | 0.00 | 83.17 | 83.17 | 0.00 | 0.00 | 83.68 |

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | ROG | NOx | CO | SO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------|-----------------|---------|-----|----|-----|---------------|-------------|-------------|---------------|
| Land Use | kWh | tons/yr | | | | MT/yr | | | |
| Place of Worship | 518277 | | | | | 150.75 | 0.01 | 0.00 | 151.70 |
| Total | | | | | | 150.75 | 0.01 | 0.00 | 151.70 |

5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | ROG | NOx | CO | SO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------|-----------------|---------|-----|----|-----|---------------|-------------|-------------|---------------|
| Land Use | kWh | tons/yr | | | | MT/yr | | | |
| Place of Worship | 518277 | | | | | 150.75 | 0.01 | 0.00 | 151.70 |
| Total | | | | | | 150.75 | 0.01 | 0.00 | 151.70 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.22 | 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 |
| Unmitigated | 0.22 | 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 |
| 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.05 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Consumer Products | 0.17 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 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 | 0.00 | 0.00 | 0.00 |
| Total | 0.22 | 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 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.05 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Consumer Products | 0.17 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 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 | 0.00 | 0.00 | 0.00 |
| Total | 0.22 | 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 |

7.0 Water Detail

7.1 Mitigation Measures Water

| | ROG | NOx | CO | SO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category | tons/yr | | | | MT/yr | | | |
| Mitigated | | | | | 12.97 | 0.05 | 0.00 | 14.33 |
| Unmitigated | | | | | 12.97 | 0.05 | 0.00 | 14.33 |
| Total | NA | NA | NA | NA | NA | NA | NA | NA |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | ROG | NOx | CO | SO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------|----------------------|---------|-----|----|-----|--------------|-------------|-------------|--------------|
| Land Use | Mgal | tons/yr | | | | MT/yr | | | |
| Place of Worship | 1.46489 / 2.29124 | | | | | 12.97 | 0.05 | 0.00 | 14.33 |
| Total | | | | | | 12.97 | 0.05 | 0.00 | 14.33 |

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | ROG | NOx | CO | SO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------|----------------------|---------|-----|----|-----|--------------|-------------|-------------|--------------|
| Land Use | Mgal | tons/yr | | | | MT/yr | | | |
| Place of Worship | 1.46489 / 2.29124 | | | | | 12.97 | 0.05 | 0.00 | 14.33 |
| Total | | | | | | 12.97 | 0.05 | 0.00 | 14.33 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

| | ROG | NOx | CO | SO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | tons/yr | | | | MT/yr | | | |
| Mitigated | | | | | 121.92 | 7.21 | 0.00 | 273.22 |
| Unmitigated | | | | | 121.92 | 7.21 | 0.00 | 273.22 |
| Total | NA | NA | NA | NA | NA | NA | NA | NA |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | ROG | NOx | CO | SO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------|----------------|---------|-----|----|-----|---------------|-------------|-------------|---------------|
| Land Use | tons | tons/yr | | | | MT/yr | | | |
| Place of Worship | 600.6 | | | | | 121.92 | 7.21 | 0.00 | 273.22 |
| Total | | | | | | 121.92 | 7.21 | 0.00 | 273.22 |

Mitigated

| | Waste Disposed | ROG | NOx | CO | SO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------|----------------|---------|-----|----|-----|---------------|-------------|-------------|---------------|
| Land Use | tons | tons/yr | | | | MT/yr | | | |
| Place of Worship | 600.6 | | | | | 121.92 | 7.21 | 0.00 | 273.22 |
| Total | | | | | | 121.92 | 7.21 | 0.00 | 273.22 |

9.0 Vegetation

St. George Church
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric |
|------------------|------|--------|
| Place of Worship | 927 | Seat |

1.2 Other Project Characteristics

| | | | | | |
|---------------------|-------|----------------------------------|-----|------------------------|----------------------------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Utility Company | Southern California Edison |
| Climate Zone | 10 | Precipitation Freq (Days) | 32 | | |

1.3 User Entered Comments

- Project Characteristics -
- Land Use - Acreage changed to reflect project site
- Construction Phase -
- Construction Off-road Equipment Mitigation -
- Vehicle Trips -

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 | 11.13 | 89.89 | 51.86 | 0.08 | 18.34 | 4.62 | 22.96 | 9.94 | 4.62 | 14.56 | 0.00 | 8,200.99 | 0.00 | 1.00 | 0.00 | 8,221.98 |
| 2012 | 54.76 | 35.74 | 22.15 | 0.03 | 0.23 | 3.13 | 3.36 | 0.01 | 3.13 | 3.14 | 0.00 | 3,083.27 | 0.00 | 0.54 | 0.00 | 3,094.53 |
| 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 | 11.13 | 89.89 | 51.86 | 0.08 | 8.41 | 4.62 | 13.02 | 4.48 | 4.62 | 9.09 | 0.00 | 8,200.99 | 0.00 | 1.00 | 0.00 | 8,221.98 |
| 2012 | 54.76 | 35.74 | 22.15 | 0.03 | 0.23 | 3.13 | 3.36 | 0.01 | 3.13 | 3.14 | 0.00 | 3,083.27 | 0.00 | 0.54 | 0.00 | 3,094.53 |
| 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 | 1.22 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | | 0.00 | | 0.00 |
| Energy | 0.05 | 0.42 | 0.35 | 0.00 | | 0.00 | 0.03 | | 0.00 | 0.03 | | 502.36 | | 0.01 | 0.01 | 505.42 |
| Mobile | 12.92 | 37.55 | 120.58 | 0.16 | 18.91 | 1.30 | 20.21 | 0.66 | 1.30 | 1.96 | | 17,089.05 | | 0.91 | | 17,108.09 |
| Total | 14.19 | 37.97 | 120.93 | 0.16 | 18.91 | 1.30 | 20.24 | 0.66 | 1.30 | 1.99 | | 17,591.41 | | 0.92 | 0.01 | 17,613.51 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------|--------------|---------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|------------------|-----------|-------------|-------------|------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 1.22 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | | 0.00 | | 0.00 |
| Energy | 0.05 | 0.42 | 0.35 | 0.00 | | 0.00 | 0.03 | | 0.00 | 0.03 | | 502.36 | | 0.01 | 0.01 | 505.42 |
| Mobile | 12.92 | 37.55 | 120.58 | 0.16 | 18.91 | 1.30 | 20.21 | 0.66 | 1.30 | 1.96 | | 17,089.05 | | 0.91 | | 17,108.09 |
| Total | 14.19 | 37.97 | 120.93 | 0.16 | 18.91 | 1.30 | 20.24 | 0.66 | 1.30 | 1.99 | | 17,591.41 | | 0.92 | 0.01 | 17,613.51 |

3.0 Construction Detail

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 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 | 1.41 | 0.00 | 0.28 | 0.01 | 0.28 | 0.01 | 0.01 | 0.02 | | 203.29 | | 0.01 | | 203.56 |
| Total | 0.14 | 0.16 | 1.41 | 0.00 | 0.28 | 0.01 | 0.28 | 0.01 | 0.01 | 0.02 | | 203.29 | | 0.01 | | 203.56 |

3.2 Site Preparation - 2011

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 | | | | | 8.13 | 0.00 | 8.13 | 4.47 | 0.00 | 4.47 | | | | | | | 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 | 8.13 | 4.61 | 12.74 | 4.47 | 4.61 | 9.08 | 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 | 1.41 | 0.00 | 0.28 | 0.01 | 0.28 | 0.01 | 0.01 | 0.02 | | 203.29 | | 0.01 | | | 203.56 |
| Total | 0.14 | 0.16 | 1.41 | 0.00 | 0.28 | 0.01 | 0.28 | 0.01 | 0.01 | 0.02 | | 203.29 | | 0.01 | | | 203.56 |

3.3 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 | | | | | 6.55 | 0.00 | 6.55 | 3.31 | 0.00 | 3.31 | | | | | | | 0.00 |
| Off-Road | 7.18 | 55.38 | 32.83 | 0.05 | | 3.27 | 3.27 | | 3.27 | 3.27 | | 5,240.07 | | 0.64 | | | 5,253.60 |
| Total | 7.18 | 55.38 | 32.83 | 0.05 | 6.55 | 3.27 | 9.82 | 3.31 | 3.27 | 6.58 | | 5,240.07 | | 0.64 | | | 5,253.60 |

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 | 0.13 | 1.18 | 0.00 | 0.23 | 0.01 | 0.24 | 0.01 | 0.01 | 0.02 | | 169.41 | | 0.01 | | | 169.64 |
| Total | 0.12 | 0.13 | 1.18 | 0.00 | 0.23 | 0.01 | 0.24 | 0.01 | 0.01 | 0.02 | | 169.41 | | 0.01 | | | 169.64 |

3.3 Grading - 2011

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-----------------|-----------|-------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 2.95 | 0.00 | 2.95 | 1.49 | 0.00 | 1.49 | | | | | | 0.00 |
| Off-Road | 7.18 | 55.38 | 32.83 | 0.05 | | 3.27 | 3.27 | | 3.27 | 3.27 | 0.00 | 5,240.07 | | 0.64 | | 5,253.60 |
| Total | 7.18 | 55.38 | 32.83 | 0.05 | 2.95 | 3.27 | 6.22 | 1.49 | 3.27 | 4.76 | 0.00 | 5,240.07 | | 0.64 | | 5,253.60 |

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 | 0.13 | 1.18 | 0.00 | 0.23 | 0.01 | 0.24 | 0.01 | 0.01 | 0.02 | | 169.41 | | 0.01 | | 169.64 |
| Total | 0.12 | 0.13 | 1.18 | 0.00 | 0.23 | 0.01 | 0.24 | 0.01 | 0.01 | 0.02 | | 169.41 | | 0.01 | | 169.64 |

3.4 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 | 0.13 | 1.64 | 0.88 | 0.00 | 0.07 | 0.05 | 0.13 | 0.01 | 0.05 | 0.06 | | 217.32 | | 0.01 | | 217.46 |
| Worker | 0.15 | 0.17 | 1.57 | 0.00 | 0.31 | 0.01 | 0.32 | 0.01 | 0.01 | 0.02 | | 225.87 | | 0.01 | | 226.18 |
| Total | 0.28 | 1.81 | 2.45 | 0.00 | 0.38 | 0.06 | 0.45 | 0.02 | 0.06 | 0.08 | | 443.19 | | 0.02 | | 443.64 |

3.4 Building Construction - 2011

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 | 0.13 | 1.64 | 0.88 | 0.00 | 0.07 | 0.05 | 0.13 | 0.01 | 0.05 | 0.06 | | 217.32 | | 0.01 | | 217.46 |
| Worker | 0.15 | 0.17 | 1.57 | 0.00 | 0.31 | 0.01 | 0.32 | 0.01 | 0.01 | 0.02 | | 225.87 | | 0.01 | | 226.18 |
| Total | 0.28 | 1.81 | 2.45 | 0.00 | 0.38 | 0.06 | 0.45 | 0.02 | 0.06 | 0.08 | | 443.19 | | 0.02 | | 443.64 |

3.5 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 | 6.21 | 37.52 | 21.30 | 0.03 | | 3.31 | 3.31 | | 3.31 | 3.31 | | 2,917.64 | | 0.56 | | 2,929.34 |
| Paving | 0.00 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | | | | | | 0.00 |
| Total | 6.21 | 37.52 | 21.30 | 0.03 | | 3.31 | 3.31 | | 3.31 | 3.31 | | 2,917.64 | | 0.56 | | 2,929.34 |

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 | 0.13 | 1.18 | 0.00 | 0.23 | 0.01 | 0.24 | 0.01 | 0.01 | 0.02 | | 169.41 | | 0.01 | | 169.64 |
| Total | 0.12 | 0.13 | 1.18 | 0.00 | 0.23 | 0.01 | 0.24 | 0.01 | 0.01 | 0.02 | | 169.41 | | 0.01 | | 169.64 |

3.5 Paving - 2011

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 | 6.21 | 37.52 | 21.30 | 0.03 | | 3.31 | 3.31 | | 3.31 | 3.31 | 0.00 | 2,917.64 | | 0.56 | | 2,929.34 |
| Paving | 0.00 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | | | | | | 0.00 |
| Total | 6.21 | 37.52 | 21.30 | 0.03 | | 3.31 | 3.31 | | 3.31 | 3.31 | 0.00 | 2,917.64 | | 0.56 | | 2,929.34 |

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 | 0.13 | 1.18 | 0.00 | 0.23 | 0.01 | 0.24 | 0.01 | 0.01 | 0.02 | | 169.41 | | 0.01 | | 169.64 |
| Total | 0.12 | 0.13 | 1.18 | 0.00 | 0.23 | 0.01 | 0.24 | 0.01 | 0.01 | 0.02 | | 169.41 | | 0.01 | | 169.64 |

3.5 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 | 0.11 | 0.12 | 1.07 | 0.00 | 0.23 | 0.01 | 0.24 | 0.01 | 0.01 | 0.02 | | 165.62 | | 0.01 | | 165.83 |
| Total | 0.11 | 0.12 | 1.07 | 0.00 | 0.23 | 0.01 | 0.24 | 0.01 | 0.01 | 0.02 | | 165.62 | | 0.01 | | 165.83 |

3.5 Paving - 2012

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 | 0.11 | 0.12 | 1.07 | 0.00 | 0.23 | 0.01 | 0.24 | 0.01 | 0.01 | 0.02 | | 165.62 | | 0.01 | | 165.83 |
| Total | 0.11 | 0.12 | 1.07 | 0.00 | 0.23 | 0.01 | 0.24 | 0.01 | 0.01 | 0.02 | | 165.62 | | 0.01 | | 165.83 |

3.6 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 | 54.20 | | | | | 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 | 54.72 | 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 | 0.03 | 0.03 | 0.28 | 0.00 | 0.06 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | | 44.17 | | 0.00 | | 44.22 |
| Total | 0.03 | 0.03 | 0.28 | 0.00 | 0.06 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | | 44.17 | | 0.00 | | 44.22 |

3.6 Architectural Coating - 2012

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 | 54.20 | | | | | 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 | 54.72 | 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 | 0.03 | 0.03 | 0.28 | 0.00 | 0.06 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | | 44.17 | | 0.00 | | 44.22 |
| Total | 0.03 | 0.03 | 0.28 | 0.00 | 0.06 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | | 44.17 | | 0.00 | | 44.22 |

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 | 12.92 | 37.55 | 120.58 | 0.16 | 18.91 | 1.30 | 20.21 | 0.66 | 1.30 | 1.96 | | 17,089.05 | | 0.91 | | 17,108.09 |
| Unmitigated | 12.92 | 37.55 | 120.58 | 0.16 | 18.91 | 1.30 | 20.21 | 0.66 | 1.30 | 1.96 | | 17,089.05 | | 0.91 | | 17,108.09 |
| Total | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|------------------|-------------------------|---------------|-----------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Place of Worship | 565.47 | 834.30 | 1714.95 | 2,557,351 | 2,557,351 |
| Total | 565.47 | 834.30 | 1,714.95 | 2,557,351 | 2,557,351 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | |
|------------------|------------|------------|-------------|------------|------------|-------------|
| | 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 |
| Place of Worship | 8.90 | 13.30 | 7.40 | 0.00 | 95.00 | 5.00 |

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 | 0.05 | 0.42 | 0.35 | 0.00 | | 0.00 | 0.03 | | 0.00 | 0.03 | | 502.36 | | 0.01 | 0.01 | 505.42 |
| NaturalGas Unmitigated | 0.05 | 0.42 | 0.35 | 0.00 | | 0.00 | 0.03 | | 0.00 | 0.03 | | 502.36 | | 0.01 | 0.01 | 505.42 |
| 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 | | | | | |
| Place of Worship | 4270.07 | 0.05 | 0.42 | 0.35 | 0.00 | | 0.00 | 0.03 | | 0.00 | 0.03 | | 502.36 | | 0.01 | 0.01 | 505.42 |
| Total | | 0.05 | 0.42 | 0.35 | 0.00 | | 0.00 | 0.03 | | 0.00 | 0.03 | | 502.36 | | 0.01 | 0.01 | 505.42 |

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-------------|---------------|
| Land Use | kBTU | lb/day | | | | | | | | | | lb/day | | | | | |
| Place of Worship | 4.27007 | 0.05 | 0.42 | 0.35 | 0.00 | | 0.00 | 0.03 | | 0.00 | 0.03 | | 502.36 | | 0.01 | 0.01 | 505.42 |
| Total | | 0.05 | 0.42 | 0.35 | 0.00 | | 0.00 | 0.03 | | 0.00 | 0.03 | | 502.36 | | 0.01 | 0.01 | 505.42 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.22 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | | 0.00 | | 0.00 |
| Unmitigated | 1.22 | 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 | 0.30 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | | | | | | 0.00 |
| Consumer Products | 0.93 | | | | | 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 | 1.23 | 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 | 0.30 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | | | | | | 0.00 |
| Consumer Products | 0.93 | | | | | 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 | 1.23 | 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

St. George Church
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric |
|------------------|------|--------|
| Place of Worship | 1200 | Seat |

1.2 Other Project Characteristics

| | | | | | |
|---------------------|-------|----------------------------------|-----|------------------------|----------------------------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Utility Company | Southern California Edison |
| Climate Zone | 10 | Precipitation Freq (Days) | 32 | | |

1.3 User Entered Comments

- Project Characteristics -
- Land Use - Acreage changed to reflect project site
- Construction Phase -
- Construction Off-road Equipment Mitigation -
- Vehicle Trips -

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2011 | 0.87 | 5.88 | 3.72 | 0.01 | 0.21 | 0.39 | 0.59 | 0.09 | 0.39 | 0.47 | 0.00 | 566.80 | 566.80 | 0.07 | 0.00 | 568.28 |
| 2012 | 0.77 | 0.39 | 0.25 | 0.00 | 0.00 | 0.03 | 0.04 | 0.00 | 0.03 | 0.03 | 0.00 | 31.09 | 31.09 | 0.01 | 0.00 | 31.20 |
| Total | 1.64 | 6.27 | 3.97 | 0.01 | 0.21 | 0.42 | 0.63 | 0.09 | 0.42 | 0.50 | 0.00 | 597.89 | 597.89 | 0.08 | 0.00 | 599.48 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2011 | 0.87 | 5.88 | 3.72 | 0.01 | 0.12 | 0.39 | 0.51 | 0.04 | 0.39 | 0.43 | 0.00 | 566.80 | 566.80 | 0.07 | 0.00 | 568.28 |
| 2012 | 0.77 | 0.39 | 0.25 | 0.00 | 0.00 | 0.03 | 0.04 | 0.00 | 0.03 | 0.03 | 0.00 | 31.09 | 31.09 | 0.01 | 0.00 | 31.20 |
| Total | 1.64 | 6.27 | 3.97 | 0.01 | 0.12 | 0.42 | 0.55 | 0.04 | 0.42 | 0.46 | 0.00 | 597.89 | 597.89 | 0.08 | 0.00 | 599.48 |

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-----------------|-----------------|-----------------|---------------|-------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.29 | 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 |
| Energy | 0.01 | 0.10 | 0.08 | 0.00 | | 0.00 | 0.01 | | 0.00 | 0.01 | 0.00 | 302.81 | 302.81 | 0.01 | 0.01 | 304.69 |
| Mobile | 1.28 | 3.79 | 13.14 | 0.02 | 1.79 | 0.14 | 1.93 | 0.07 | 0.14 | 0.21 | 0.00 | 1,683.95 | 1,683.95 | 0.09 | 0.00 | 1,685.92 |
| Waste | | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 2,192.30 | 0.00 | 2,192.30 | 129.56 | 0.00 | 4,913.09 |
| Water | | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 16.79 | 16.79 | 0.06 | 0.00 | 18.55 |
| Total | 1.58 | 3.89 | 13.22 | 0.02 | 1.79 | 0.14 | 1.94 | 0.07 | 0.14 | 0.22 | 2,192.30 | 2,003.55 | 4,195.85 | 129.72 | 0.01 | 6,922.25 |

2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-----------------|-----------------|-----------------|---------------|-------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.29 | 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 |
| Energy | 0.01 | 0.10 | 0.08 | 0.00 | | 0.00 | 0.01 | | 0.00 | 0.01 | 0.00 | 302.81 | 302.81 | 0.01 | 0.01 | 304.69 |
| Mobile | 1.28 | 3.79 | 13.14 | 0.02 | 1.79 | 0.14 | 1.93 | 0.07 | 0.14 | 0.21 | 0.00 | 1,683.95 | 1,683.95 | 0.09 | 0.00 | 1,685.92 |
| Waste | | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 2,192.30 | 0.00 | 2,192.30 | 129.56 | 0.00 | 4,913.09 |
| Water | | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 16.79 | 16.79 | 0.06 | 0.00 | 18.55 |
| Total | 1.58 | 3.89 | 13.22 | 0.02 | 1.79 | 0.14 | 1.94 | 0.07 | 0.14 | 0.22 | 2,192.30 | 2,003.55 | 4,195.85 | 129.72 | 0.01 | 6,922.25 |

3.0 Construction Detail

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.09 | 0.00 | 0.09 | 0.05 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Off-Road | 0.05 | 0.45 | 0.25 | 0.00 | | 0.02 | 0.02 | | 0.02 | 0.02 | 0.00 | 36.27 | 36.27 | 0.00 | 0.00 | 36.36 |
| Total | 0.05 | 0.45 | 0.25 | 0.00 | 0.09 | 0.02 | 0.11 | 0.05 | 0.02 | 0.07 | 0.00 | 36.27 | 36.27 | 0.00 | 0.00 | 36.36 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.96 | 0.96 | 0.00 | 0.00 | 0.96 |
| Total | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.96 | 0.96 | 0.00 | 0.00 | 0.96 |

3.2 Site Preparation - 2011

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.04 | 0.00 | 0.04 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Off-Road | 0.05 | 0.45 | 0.25 | 0.00 | | 0.02 | 0.02 | | 0.02 | 0.02 | 0.00 | 36.27 | 36.27 | 0.00 | 0.00 | 36.36 |
| Total | 0.05 | 0.45 | 0.25 | 0.00 | 0.04 | 0.02 | 0.06 | 0.02 | 0.02 | 0.04 | 0.00 | 36.27 | 36.27 | 0.00 | 0.00 | 36.36 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.96 | 0.96 | 0.00 | 0.00 | 0.96 |
| Total | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.96 | 0.96 | 0.00 | 0.00 | 0.96 |

3.3 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.07 | 0.00 | 0.07 | 0.03 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Off-Road | 0.07 | 0.55 | 0.33 | 0.00 | | 0.03 | 0.03 | | 0.03 | 0.03 | 0.00 | 47.52 | 47.52 | 0.01 | 0.00 | 47.65 |
| Total | 0.07 | 0.55 | 0.33 | 0.00 | 0.07 | 0.03 | 0.10 | 0.03 | 0.03 | 0.06 | 0.00 | 47.52 | 47.52 | 0.01 | 0.00 | 47.65 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.59 | 1.59 | 0.00 | 0.00 | 1.60 |
| Total | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.59 | 1.59 | 0.00 | 0.00 | 1.60 |

3.3 Grading - 2011

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.03 | 0.00 | 0.03 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Off-Road | 0.07 | 0.55 | 0.33 | 0.00 | | 0.03 | 0.03 | | 0.03 | 0.03 | 0.00 | 47.52 | 47.52 | 0.01 | 0.00 | 47.65 |
| Total | 0.07 | 0.55 | 0.33 | 0.00 | 0.03 | 0.03 | 0.06 | 0.02 | 0.03 | 0.05 | 0.00 | 47.52 | 47.52 | 0.01 | 0.00 | 47.65 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.59 | 1.59 | 0.00 | 0.00 | 1.60 |
| Total | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.59 | 1.59 | 0.00 | 0.00 | 1.60 |

3.4 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.70 | 4.62 | 2.76 | 0.00 | | 0.32 | 0.32 | | 0.32 | 0.32 | 0.00 | 421.43 | 421.43 | 0.06 | 0.00 | 422.63 |
| Total | 0.70 | 4.62 | 2.76 | 0.00 | | 0.32 | 0.32 | | 0.32 | 0.32 | 0.00 | 421.43 | 421.43 | 0.06 | 0.00 | 422.63 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor | 0.02 | 0.23 | 0.12 | 0.00 | 0.01 | 0.01 | 0.02 | 0.00 | 0.01 | 0.01 | 0.00 | 28.48 | 28.48 | 0.00 | 0.00 | 28.49 |
| Worker | 0.02 | 0.02 | 0.24 | 0.00 | 0.04 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 30.55 | 30.55 | 0.00 | 0.00 | 30.60 |
| Total | 0.04 | 0.25 | 0.36 | 0.00 | 0.05 | 0.01 | 0.06 | 0.00 | 0.01 | 0.01 | 0.00 | 59.03 | 59.03 | 0.00 | 0.00 | 59.09 |

3.4 Building Construction - 2011

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.70 | 4.62 | 2.76 | 0.00 | | 0.32 | 0.32 | | 0.32 | 0.32 | 0.00 | 421.43 | 421.43 | 0.06 | 0.00 | 422.63 |
| Total | 0.70 | 4.62 | 2.76 | 0.00 | | 0.32 | 0.32 | | 0.32 | 0.32 | 0.00 | 421.43 | 421.43 | 0.06 | 0.00 | 422.63 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor | 0.02 | 0.23 | 0.12 | 0.00 | 0.01 | 0.01 | 0.02 | 0.00 | 0.01 | 0.01 | 0.00 | 28.48 | 28.48 | 0.00 | 0.00 | 28.49 |
| Worker | 0.02 | 0.02 | 0.24 | 0.00 | 0.04 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 30.55 | 30.55 | 0.00 | 0.00 | 30.60 |
| Total | 0.04 | 0.25 | 0.36 | 0.00 | 0.05 | 0.01 | 0.06 | 0.00 | 0.01 | 0.01 | 0.00 | 59.03 | 59.03 | 0.00 | 0.00 | 59.09 |

3.5 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | 0.00 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.5 Paving - 2011

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | 0.00 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.5 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.06 | 0.36 | 0.21 | 0.00 | | 0.03 | 0.03 | | 0.03 | 0.03 | 0.00 | 26.46 | 26.46 | 0.00 | 0.00 | 26.56 |
| Paving | 0.00 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.06 | 0.36 | 0.21 | 0.00 | | 0.03 | 0.03 | | 0.03 | 0.03 | 0.00 | 26.46 | 26.46 | 0.00 | 0.00 | 26.56 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.56 | 1.56 | 0.00 | 0.00 | 1.56 |
| Total | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.56 | 1.56 | 0.00 | 0.00 | 1.56 |

3.5 Paving - 2012

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.06 | 0.36 | 0.21 | 0.00 | | 0.03 | 0.03 | | 0.03 | 0.03 | 0.00 | 26.46 | 26.46 | 0.00 | 0.00 | 26.56 |
| Paving | 0.00 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.06 | 0.36 | 0.21 | 0.00 | | 0.03 | 0.03 | | 0.03 | 0.03 | 0.00 | 26.46 | 26.46 | 0.00 | 0.00 | 26.56 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.56 | 1.56 | 0.00 | 0.00 | 1.56 |
| Total | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.56 | 1.56 | 0.00 | 0.00 | 1.56 |

3.6 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.70 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Off-Road | 0.01 | 0.03 | 0.02 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 2.55 | 2.55 | 0.00 | 0.00 | 2.56 |
| Total | 0.71 | 0.03 | 0.02 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 2.55 | 2.55 | 0.00 | 0.00 | 2.56 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.00 | 0.52 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.00 | 0.52 |

3.6 Architectural Coating - 2012

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | | |
| Archit. Coating | 0.70 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Off-Road | 0.01 | 0.03 | 0.02 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 2.55 | 2.55 | 0.00 | 0.00 | 2.56 | |
| Total | 0.71 | 0.03 | 0.02 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 2.55 | 2.55 | 0.00 | 0.00 | 2.56 | |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 | 0.00 | 0.00 | 0.00 |
| Worker | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.00 | 0.52 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.52 | 0.52 | 0.00 | 0.00 | 0.52 |

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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 1.28 | 3.79 | 13.14 | 0.02 | 1.79 | 0.14 | 1.93 | 0.07 | 0.14 | 0.21 | 0.00 | 1,683.95 | 1,683.95 | 0.09 | 0.00 | 1,685.92 |
| Unmitigated | 1.28 | 3.79 | 13.14 | 0.02 | 1.79 | 0.14 | 1.93 | 0.07 | 0.14 | 0.21 | 0.00 | 1,683.95 | 1,683.95 | 0.09 | 0.00 | 1,685.92 |
| Total | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|------------------|-------------------------|-----------------|-----------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Place of Worship | 732.00 | 1,080.00 | 2220.00 | 3,310,487 | 3,310,487 |
| Total | 732.00 | 1,080.00 | 2,220.00 | 3,310,487 | 3,310,487 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | |
|------------------|------------|------------|-------------|------------|------------|-------------|
| | 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 |
| Place of Worship | 8.90 | 13.30 | 7.40 | 0.00 | 95.00 | 5.00 |

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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 195.15 | 195.15 | 0.01 | 0.00 | 196.37 |
| Electricity Unmitigated | | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 195.15 | 195.15 | 0.01 | 0.00 | 196.37 |
| NaturalGas Mitigated | 0.01 | 0.10 | 0.08 | 0.00 | | 0.00 | 0.01 | | 0.00 | 0.01 | 0.00 | 107.67 | 107.67 | 0.00 | 0.00 | 108.32 |
| NaturalGas Unmitigated | 0.01 | 0.10 | 0.08 | 0.00 | | 0.00 | 0.01 | | 0.00 | 0.01 | 0.00 | 107.67 | 107.67 | 0.00 | 0.00 | 108.32 |
| 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Place of Worship | 2.01758e+006 | 0.01 | 0.10 | 0.08 | 0.00 | | 0.00 | 0.01 | | 0.00 | 0.01 | 0.00 | 107.67 | 107.67 | 0.00 | 0.00 | 108.32 |
| Total | | 0.01 | 0.10 | 0.08 | 0.00 | | 0.00 | 0.01 | | 0.00 | 0.01 | 0.00 | 107.67 | 107.67 | 0.00 | 0.00 | 108.32 |

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| Land Use | kBTU | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Place of Worship | 2.01758e+006 | 0.01 | 0.10 | 0.08 | 0.00 | | 0.00 | 0.01 | | 0.00 | 0.01 | 0.00 | 107.67 | 107.67 | 0.00 | 0.00 | 108.32 |
| Total | | 0.01 | 0.10 | 0.08 | 0.00 | | 0.00 | 0.01 | | 0.00 | 0.01 | 0.00 | 107.67 | 107.67 | 0.00 | 0.00 | 108.32 |

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | ROG | NOx | CO | SO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------|-----------------|---------|-----|----|-----|---------------|-------------|-------------|---------------|
| Land Use | kWh | tons/yr | | | | MT/yr | | | |
| Place of Worship | 670909 | | | | | 195.15 | 0.01 | 0.00 | 196.37 |
| Total | | | | | | 195.15 | 0.01 | 0.00 | 196.37 |

5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | ROG | NOx | CO | SO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------|-----------------|---------|-----|----|-----|---------------|-------------|-------------|---------------|
| Land Use | kWh | tons/yr | | | | MT/yr | | | |
| Place of Worship | 670909 | | | | | 195.15 | 0.01 | 0.00 | 196.37 |
| Total | | | | | | 195.15 | 0.01 | 0.00 | 196.37 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.29 | 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 |
| Unmitigated | 0.29 | 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 |
| 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 | tons/yr | | | | | | | | | | MT/yr | | | | | | |
| Architectural Coating | 0.07 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Consumer Products | 0.22 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.29 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-----------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | | |
| Architectural Coating | 0.07 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Consumer Products | 0.22 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.29 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

7.0 Water Detail

7.1 Mitigation Measures Water

| | ROG | NOx | CO | SO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category | tons/yr | | | | MT/yr | | | |
| Mitigated | | | | | 16.79 | 0.06 | 0.00 | 18.55 |
| Unmitigated | | | | | 16.79 | 0.06 | 0.00 | 18.55 |
| Total | NA | NA | NA | NA | NA | NA | NA | NA |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | ROG | NOx | CO | SO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------|--------------------|---------|-----|----|-----|--------------|-------------|-------------|--------------|
| Land Use | Mgal | tons/yr | | | | MT/yr | | | |
| Place of Worship | 1.8963 / 2.966 | | | | | 16.79 | 0.06 | 0.00 | 18.55 |
| Total | | | | | | 16.79 | 0.06 | 0.00 | 18.55 |

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | ROG | NOx | CO | SO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------|--------------------|---------|-----|----|-----|--------------|-------------|-------------|--------------|
| Land Use | Mgal | tons/yr | | | | MT/yr | | | |
| Place of Worship | 1.8963 / 2.966 | | | | | 16.79 | 0.06 | 0.00 | 18.55 |
| Total | | | | | | 16.79 | 0.06 | 0.00 | 18.55 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | ROG | NOx | CO | SO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | tons/yr | | | | MT/yr | | | |
| Mitigated | | | | | 2,192.30 | 129.56 | 0.00 | 4,913.09 |
| Unmitigated | | | | | 2,192.30 | 129.56 | 0.00 | 4,913.09 |
| Total | NA | NA | NA | NA | NA | NA | NA | NA |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | ROG | NOx | CO | SO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------|----------------|---------|-----|----|-----|-----------------|---------------|-------------|-----------------|
| Land Use | tons | tons/yr | | | | MT/yr | | | |
| Place of Worship | 10800 | | | | | 2,192.30 | 129.56 | 0.00 | 4,913.09 |
| Total | | | | | | 2,192.30 | 129.56 | 0.00 | 4,913.09 |

Mitigated

| | Waste Disposed | ROG | NOx | CO | SO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------|----------------|---------|-----|----|-----|-----------------|---------------|-------------|-----------------|
| Land Use | tons | tons/yr | | | | MT/yr | | | |
| Place of Worship | 10800 | | | | | 2,192.30 | 129.56 | 0.00 | 4,913.09 |
| Total | | | | | | 2,192.30 | 129.56 | 0.00 | 4,913.09 |

9.0 Vegetation

St. George Church
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric |
|------------------|------|--------|
| Place of Worship | 1200 | Seat |

1.2 Other Project Characteristics

| | | | | | |
|---------------------|-------|----------------------------------|-----|------------------------|----------------------------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Utility Company | Southern California Edison |
| Climate Zone | 10 | Precipitation Freq (Days) | 32 | | |

1.3 User Entered Comments

- Project Characteristics -
- Land Use - Acreage changed to reflect project site
- Construction Phase -
- Construction Off-road Equipment Mitigation -
- Vehicle Trips -

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 | 11.13 | 89.89 | 51.86 | 0.08 | 18.34 | 4.62 | 22.96 | 9.94 | 4.62 | 14.56 | 0.00 | 8,200.99 | 0.00 | 1.00 | 0.00 | 8,221.98 |
| 2012 | 70.73 | 35.74 | 22.15 | 0.03 | 0.23 | 3.13 | 3.36 | 0.01 | 3.13 | 3.14 | 0.00 | 3,083.27 | 0.00 | 0.54 | 0.00 | 3,094.53 |
| 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 | 11.13 | 89.89 | 51.86 | 0.08 | 8.41 | 4.62 | 13.02 | 4.48 | 4.62 | 9.09 | 0.00 | 8,200.99 | 0.00 | 1.00 | 0.00 | 8,221.98 |
| 2012 | 70.73 | 35.74 | 22.15 | 0.03 | 0.23 | 3.13 | 3.36 | 0.01 | 3.13 | 3.14 | 0.00 | 3,083.27 | 0.00 | 0.54 | 0.00 | 3,094.53 |
| 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 | 1.58 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | | 0.00 | | 0.00 |
| Energy | 0.06 | 0.54 | 0.46 | 0.00 | | 0.00 | 0.04 | | 0.00 | 0.04 | | 650.31 | | 0.01 | 0.01 | 654.26 |
| Mobile | 16.73 | 48.61 | 156.09 | 0.21 | 24.48 | 1.68 | 26.16 | 0.85 | 1.68 | 2.54 | | 22,121.75 | | 1.17 | | 22,146.40 |
| Total | 18.37 | 49.15 | 156.55 | 0.21 | 24.48 | 1.68 | 26.20 | 0.85 | 1.68 | 2.58 | | 22,772.06 | | 1.18 | 0.01 | 22,800.66 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------|--------------|---------------|-------------|---------------|--------------|--------------|----------------|---------------|-------------|----------|------------------|-----------|-------------|-------------|------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 1.58 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | | 0.00 | | 0.00 |
| Energy | 0.06 | 0.54 | 0.46 | 0.00 | | 0.00 | 0.04 | | 0.00 | 0.04 | | 650.31 | | 0.01 | 0.01 | 654.26 |
| Mobile | 16.73 | 48.61 | 156.09 | 0.21 | 24.48 | 1.68 | 26.16 | 0.85 | 1.68 | 2.54 | | 22,121.75 | | 1.17 | | 22,146.40 |
| Total | 18.37 | 49.15 | 156.55 | 0.21 | 24.48 | 1.68 | 26.20 | 0.85 | 1.68 | 2.58 | | 22,772.06 | | 1.18 | 0.01 | 22,800.66 |

3.0 Construction Detail

3.1 Mitigation Measures Construction

Water Exposed Area

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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 | 16.73 | 48.61 | 156.09 | 0.21 | 24.48 | 1.68 | 26.16 | 0.85 | 1.68 | 2.54 | | 22,121.75 | | 1.17 | | 22,146.40 |
| Unmitigated | 16.73 | 48.61 | 156.09 | 0.21 | 24.48 | 1.68 | 26.16 | 0.85 | 1.68 | 2.54 | | 22,121.75 | | 1.17 | | 22,146.40 |
| Total | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|------------------|-------------------------|-----------------|-----------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Place of Worship | 732.00 | 1,080.00 | 2220.00 | 3,310,487 | 3,310,487 |
| Total | 732.00 | 1,080.00 | 2,220.00 | 3,310,487 | 3,310,487 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | |
|------------------|------------|------------|-------------|------------|------------|-------------|
| | 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 |
| Place of Worship | 8.90 | 13.30 | 7.40 | 0.00 | 95.00 | 5.00 |

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 | 0.06 | 0.54 | 0.46 | 0.00 | | 0.00 | 0.04 | | 0.00 | 0.04 | | 650.31 | | 0.01 | 0.01 | 654.26 |
| NaturalGas Unmitigated | 0.06 | 0.54 | 0.46 | 0.00 | | 0.00 | 0.04 | | 0.00 | 0.04 | | 650.31 | | 0.01 | 0.01 | 654.26 |
| 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 | | | | | |
| Place of Worship | 5527.6 | 0.06 | 0.54 | 0.46 | 0.00 | | 0.00 | 0.04 | | 0.00 | 0.04 | | 650.31 | | 0.01 | 0.01 | 654.26 |
| Total | | 0.06 | 0.54 | 0.46 | 0.00 | | 0.00 | 0.04 | | 0.00 | 0.04 | | 650.31 | | 0.01 | 0.01 | 654.26 |

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------|----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|---------------|-----------|-------------|-------------|---------------|
| Land Use | kBTU | lb/day | | | | | | | | | | lb/day | | | | | |
| Place of Worship | 5.5276 | 0.06 | 0.54 | 0.46 | 0.00 | | 0.00 | 0.04 | | 0.00 | 0.04 | | 650.31 | | 0.01 | 0.01 | 654.26 |
| Total | | 0.06 | 0.54 | 0.46 | 0.00 | | 0.00 | 0.04 | | 0.00 | 0.04 | | 650.31 | | 0.01 | 0.01 | 654.26 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|-----------|-----------|-----------|-----------|---------------|--------------|------------|----------------|---------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.58 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | 0.00 | | 0.00 | | 0.00 | | 0.00 |
| Unmitigated | 1.58 | 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 | 0.38 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | | | | | | 0.00 |
| Consumer Products | 1.20 | | | | | 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 | 1.58 | 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 | 0.38 | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | | | | | | 0.00 |
| Consumer Products | 1.20 | | | | | 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 | 1.58 | 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
