WHITE ROCK SPRINGS RANCH DEVELOPMENT

AIR QUALITY AND GREENHOUSE GAS ASSESSMENT

PREPARED BY

Michael Baker
INTERNATIONAL

JULY 2015

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This report documents the results of an assessment of both air quality and greenhouse gases (GHG) completed for the White Rock Springs Ranch development, a ±138.9-acre, 395-unit single-family residential development proposed to be located in the Folsom Plan Area Specific Plan in Folsom, California. The Specific Plan establishes detailed land use and residential density standards, design standards for residential and commercial development, a circulation plan, and environmental protection standards for wetlands and oak woodlands.

FOLSOM PLAN AREA SPECIFIC PLAN EIR/EIS

The Folsom Plan Area Specific Plan EIR/EIS (SCH# 2008092051) was certified by the Folsom City Council on June 14, 2011. The Specific Plan EIR/EIS evaluates development of 10,210 residential units at various densities on a total of 1,477.2 acres; the development of 362.8 acres designated for commercial and industrial use, including a regional shopping center; public/quasi-public uses; elementary, middle, and high schools on 179.3 acres; 121.7 acres of community and neighborhood parks; stormwater detention basins; 1,053.1 acres of open space areas and open space preserves; and major roads with landscaping (Folsom 2011, p. ES-3). The Specific Plan EIR/EIS identifies significance thresholds for all project impacts and includes specific mitigation measures to address both site-specific and cumulative effects of development. Among other issues, the Specific Plan EIR/EIS evaluates the effects of air quality pollutants and GHG emissions resulting from Specific Plan development.

Proposed mitigation measures were found to reduce the effects of buildout under the Specific Plan to a less than significant level for all air quality–related issues with the exception of generation of construction emissions of nitrogen oxide (NO_x) and coarse particulate matter (PM_{10}), generation of long-term operational emissions of reactive organic gases (ROG) and NO_x, exposure of sensitive receptors to short- and long-term emissions of toxic air contaminants, and possible exposure of sensitive receptors to odorous emissions [during construction]. These impacts were found to be significant and unavoidable.

Proposed mitigation measures were found to reduce the effects of buildout under the Specific Plan in terms of the generation of GHG emissions, though not to a less than significant level. The generation of temporary, short-term construction-related GHG emissions and the generation of long-term operational GHG emissions were found to be significant and unavoidable.

The City Council adopted Findings of Fact and a Statement of Overriding Considerations finding the project would have economic, social, or other benefits. A Mitigation Monitoring and Reporting Program (MMRP) was prepared and adopted with the Specific Plan. The MMRP is a binding document and would be applicable to the White Rock Springs Ranch development. The specific air pollutant and GHG reduction measures contained in the Specific Plan MMRP, which the White Rock Springs Ranch residential development is required to implement, include measures that reduce the emissions generated during both construction and operations of development. Additionally, White Rock Springs Ranch will be subject to measures contained in the Specific Plan MMRP designed to protect receptors from concentrations of toxic air contaminants as well as from noxious odors. An outline of the mitigation measures has been provided in **Appendix A**. For the entire summary of each measure, refer to the MMRP.

1.1 WHITE ROCK SPRINGS RANCH DEVELOPMENT LOCATION

The White Rock Springs Ranch development site is located in an area known as the Folsom Plan Area in Folsom in Sacramento County. The development area is located approximately 0.7 mile south of US Highway 50 and positioned north of the Placerville Road/White Rock Road intersection. The Sacramento/El Dorado county line is located approximately 0.2 mile to the

east. The development site is surrounded by undeveloped lands approved for development as part of the Folsom Plan Area Specific Plan. To the east of the site is vacant land designated for single-family residential development. Lands designated for single-family residential, public/quasi-public uses, and a park border the site to the north. Similarly, vacant land designated for multi-family neighborhoods and open space flanks the site to the west. White Rock Road traverses the southern boundary of the White Rock Springs Ranch development site, with vacant land under the jurisdiction of Sacramento County beyond.

1.2 WHITE ROCK SPRINGS RANCH DEVELOPMENT DESCRIPTION

The Planning Entitlements/Approvals requested for the White Rock Springs Ranch property include a Large Lot Vesting Tentative Subdivision Map, a Small Lot Vesting Tentative Subdivision Map, a Development Agreement Amendment, a Minor Administrative Amendment, and a Transfer of Development Rights (Dwelling Unit Transfer) of the Folsom Plan Area Specific Plan consistent with the goals, policies, and intent of the Folsom Plan Area Specific Plan, approved in 2011. The White Rock Springs Ranch development would span ±138.9 acres and contain 395 single-family residences. This land use mix includes the same land uses as the approved Folsom Plan Area Specific Plan and thus was evaluated for air quality and greenhouse gas–related impacts in the EIR/EIS. However, the White Rock Springs Ranch development has been slightly revised and adjusted to strategically match the applicant's land use and design objectives to the needs of the current Folsom housing market. As a result of these revisions to the development plan, the White Rock Springs Ranch development consists of 1.9 additional acres and 15 additional residential units than originally contemplated for the site. Nonetheless, this increase in acreage and development potential on the site would not represent an increase of development not previously considered in the EIR/EIS since this increase in acreage and development potential is offset by equal reductions in acreage and development potential at another property in the Folsom Plan Area Specific Plan. Specifically:

- On April 14, 2015, a Boundary Line Adjustment was approved between the Russell Ranch property (directly north of White Rock Springs Ranch) and the Carr Trust property (directly west of White Rock Springs Ranch), resulting in a transfer of land of 6.8 acres to the Russell Ranch property, which is needed for secondary access and for detention basin purposes for the development of Russell Ranch.

- On April 14, 2015, the Carr Trust property (directly west of White Rock Springs Ranch) was acquired by the White Rock Springs Ranch applicant.

- On May 19, 2015, a Boundary Line Adjustment was submitted to the City of Folsom to slightly reconfigure the lands of White Rock Springs Ranch and the Carr Trust properties to change the boundary between the White Rock Springs Ranch property and the Carr Trust property, resulting in 138.9 acres of White Rock Springs Ranch property (previously 137 acres) and 15 acres of Carr Trust Property.

- As part of this development plan, the White Rock Springs Ranch applicant is seeking a Transfer of Development Rights for 15 dwelling units from the Carr Trust property to the White Rock Springs Ranch property.

Thus, the increase in acreage and development potential at the White Rock Springs Ranch site is offset by equal reductions at the Carr Trust property.

2.1 AIR QUALITY SETTING

Air quality in a region is determined by its topography, meteorology, and existing air pollutant sources. These factors are discussed below, along with the current regulatory structure that applies to the Sacramento Valley Air Basin, which encompasses the Folsom Plan Area Specific Plan, and thus White Rock Springs Ranch, pursuant to the regulatory authority of the Sacramento Metropolitan Air Quality Management District (SMAQMD).

Ambient air quality is commonly characterized by climate conditions, the meteorological influences on air quality, and the quantity and type of pollutants released. The air basin is subject to a combination of topographical and climatic factors that reduce the potential for high levels of regional and local air pollutants. The following section describes the pertinent characteristics of the air basin and provides an overview of the physical conditions affecting pollutant dispersion in the Folsom area.

AIR BASIN CHARACTERISTICS

Sacramento Valley Air Basin

The White Rock Springs Ranch development site is located in the Sacramento Valley Air Basin (SVAB), which is under the jurisdiction of the SMAQMD. The air basin is relatively flat, bordered by mountains to the east, west, and north and by the San Joaquin Valley to the south. Air flows into the SVAB through the Carquinez Strait, moving across the Sacramento Delta, and bringing with it pollutants from the heavily populated San Francisco Bay Area. The climate is characterized by hot, dry summers and cool, rainy winters. Characteristic of SVAB winter weather are periods of dense and persistent low-level fog, which are most prevalent between storm systems. From May to October, the region's intense heat and sunlight lead to high ozone pollutant concentrations. Summer inversions are strong and frequent but are less troublesome than those that occur in the fall. Autumn inversions, formed by warm air subsiding in a region of high pressure, have accompanying light winds that do not provide adequate dispersion of air pollutants.

Meteorological Influences on Air Quality

Regional flow patterns affect air quality patterns by directing pollutants downwind of sources. Localized meteorological conditions, such as moderate winds, disperse pollutants and reduce pollutant concentrations. However, the mountains surrounding the SVAB can create a barrier to airflow, which can trap air pollutants in the valley when meteorological conditions are right and a temperature inversion exists. The highest frequency of air stagnation occurs in the autumn and early winter when large high-pressure cells lie over the valley. The lack of surface wind during these periods and the reduced vertical air flow caused by less surface heating reduces the influx of outside air and allows air pollutants to become concentrated in a stable volume of air. The surface concentrations of pollutants are highest when these conditions are combined with smoke from agricultural burning or when temperature inversions trap cool air, fog, and pollutants near the ground (SMAQMD 2011).

The ozone season (May through October) in the valley is characterized by stagnant morning air or light winds, with the delta sea breeze arriving in the afternoon out of the southwest. Usually the evening breeze transports the airborne pollutants to the north out of the valley. During about half of the days from July to September, however, a phenomenon called the Schultz Eddy prevents this from occurring. Instead of allowing the prevailing wind patterns to move north and carry the pollutants out of the valley, the Schultz Eddy causes the wind pattern to circle back

south. This phenomenon exacerbates the pollution levels in the area and increases the likelihood of violating federal or state standards (SMAQMD 2011).

REGIONAL AMBIENT AIR QUALITY

Motor vehicle transportation, including automobiles, trucks, transit buses, and other modes of transportation, is the major contributor to regional air pollution. Stationary sources were once important contributors to both regional and local pollution; however, their role has been substantially reduced in recent years by pollution control programs.

Criteria Air Pollutants

Criteria air pollutants are defined as those pollutants for which the federal and state governments have established air quality standards for outdoor or ambient concentrations to protect public health with a determined margin of safety. Ozone (O_3) and particulate matter (PM) are generally considered to be regional pollutants because they or their precursors affect air quality on a regional scale. Pollutants such as carbon monoxide (CO), nitrogen dioxide (NO_2), and sulfur dioxide (SO_2) are considered to be local pollutants because they tend to accumulate in the air locally. PM is also considered a local pollutant. In the Folsom region, O_3 and PM are of particular concern. Health effects commonly associated with criteria pollutants are summarized in **Table 2-1.**

TABLE 2-1
CRITERIA AIR POLLUTANTS – SUMMARY OF COMMON SOURCES AND EFFECTS

Pollutant	Major Man-Made Sources	Human Health & Welfare Effects
Carbon Monoxide (CO)	An odorless, colorless gas formed when carbon in fuel is not burned completely; a component of motor vehicle exhaust.	Reduces the ability of blood to deliver oxygen to vital tissues, effecting the cardiovascular and nervous system. Impairs vision, causes dizziness, and can lead to unconsciousness or death.
Nitrogen Dioxide (NO_2)	A reddish-brown gas formed during fuel combustion for motor vehicles, energy utilities and industrial sources.	Respiratory irritant; aggravates lung and heart problems. Precursor to ozone and acid rain. Contributes to nutrient overloading which deteriorates water quality. Causes brown discoloration of the atmosphere.
Ozone (O_3)	Formed by a chemical reaction between reactive organic gases (ROGs) and nitrous oxides (NOx) in the presence of sunlight. Common sources of these precursor pollutants include motor vehicle exhaust, industrial emissions, solvents, paints and landfills.	Irritates and causes inflammation of the mucous membranes and lung airways; causes wheezing, coughing and pain when inhaling deeply; decreases lung capacity; aggravates lung and heart problems. Damages plants; reduces crop yield.
Particulate Matter (PM_{10} & $PM_{2.5}$)	Power plants, steel mills, chemical plants, unpaved roads and parking lots, wood-burning stoves and fireplaces, automobiles and others.	Increased respiratory symptoms, such as irritation of the airways, coughing, or difficulty breathing; aggravated asthma; development of chronic bronchitis; irregular heartbeat; nonfatal heart attacks; and premature death in people with heart or lung disease. Impairs visibility (haze).
Sulfur Dioxide (SO_2)	A colorless, nonflammable gas formed when fuel containing sulfur is burned. Examples are refineries, cement manufacturing, metal processing facilities, locomotives, and ships.	Respiratory irritant. Aggravates lung and heart problems. In the presence of moisture and oxygen, can damage marble, iron and steel; damage crops and natural vegetation. Impairs visibility.

Source: CAPCOA 2011

Toxic Air Contaminants

In addition to the criteria pollutants discussed above, toxic air contaminants (TACs) are another group of pollutants of concern. TACs are considered either carcinogenic or noncarcinogenic based on the nature of the health effects associated with exposure to the pollutant. For regulatory purposes, carcinogenic TACs are assumed to have no safe threshold below which health impacts would not occur, and cancer risk is expressed as excess cancer cases per one million exposed individuals. Noncarcinogenic TACs differ in that there is generally assumed to be a safe level of exposure below which no negative health impact is believed to occur. These levels are determined on a pollutant-by-pollutant basis.

There are many different types of TACs, with varying degrees of toxicity. Sources of TACs include industrial processes such as petroleum refining and chrome plating operations, commercial operations such as gasoline stations and dry cleaners, and motor vehicle exhaust. Public exposure to TACs can result from emissions from normal operations, as well as from accidental releases of hazardous materials during upset conditions. The health effects of TACs include cancer, birth defects, neurological damage, and death.

Diesel Particulate Matter

According to the California Almanac of Emissions and Air Quality (CARB 2009), the majority of the estimated health risk from TACs can be attributed to relatively few compounds, the most important being PM from diesel-fueled engines (diesel PM). Diesel PM differs from other TACs in that it is not a single substance. Rather, the exhaust from diesel engines contains hundreds of different gaseous and particulate components, many of which are toxic. Many of these compounds adhere to the particles, and because diesel particles are so small, they penetrate deep into the lungs. Diesel engine particulate has been identified as a human carcinogen. Studies show that diesel PM concentrations are much higher near heavily traveled highways and intersections. Off-road construction equipment and heavy-duty trucks are considered major sources of diesel-related emissions.

Ambient Air Quality

Ambient air quality at the White Rock Springs Ranch development site can be deduced from ambient air quality measurements conducted at air quality monitoring stations. The Folsom-Natoma Street air quality monitoring station, located approximately 4 miles northwest of the development site, is the closest station. The Folsom-Natoma Street air quality monitoring station monitors ambient concentrations of O_3. Concentrations of PM_{10} and $PM_{2.5}$ were obtained from the next closest monitoring station located in Sacramento (Del Paso Manor air monitoring station approximately 14 miles west the development site). Ambient emission concentrations will vary due to localized variations in emission sources and climate and should be considered "generally" representative of ambient concentrations in the development area.

Table 2-2 summarizes the published data concerning O_3 since 2011 from the Folsom-Natoma Street air quality monitoring station. **Table 2-2** also shows the published data concerning O_3, PM_{10}, and $PM_{2.5}$ since 2011 from the Del Paso Manor air quality monitoring station.

TABLE 2-2
AMBIENT AIR QUALITY MONITORING DATA FOR THE WHITE ROCK SPRINGS RANCH DEVELOPMENT SITE

Pollutant Standards	2012	2013	2014
Folsom-Natoma Street Air Quality Monitoring Station			
Ozone			
Maximum 1-hour concentration (ppm)	0.122	0.114	0.100
Maximum 8-hour concentration (ppm) (state/federal)	0.106 / 0.105	0.087 / 0.087	0.084 / 0.085
Number of days above state 1-hour standard	19	5	7
Number of days above state/federal 8-hour standard	57 / 38	17 / 6	35 / 14
Sacramento-Del Paso Manor Air Quality Monitoring Station			
Ozone			
Maximum 1-hour concentration (ppm)	0.112	0.117	0.101
Maximum 8-hour concentration (ppm) (state/federal)	0.096 / 0.096	0.088 / 0.087	0.077 / 0.077
Number of days above state 1-hour standard	6	2	2
Number of days above state/federal 8-hour standard	21 / 12	7 / 3	18 / 1
Respirable Particulate Matter (PM_{10})			
Maximum 24-hour concentration (μg/m3) (state/federal)	43.0 / 41.0	63.5 / 56.0	42.8 / 40.0
Number of days above state/federal standard	0 / 0	12.3 / 0	0 / 0
Fine Particulate Matter ($PM_{2.5}$)			
Maximum 24-hour concentration (μg/m3) (state/federal)	45.7 / 35.3	59.5 / 53.8	39.5 / 32.0
Number of days above federal standard	0	13	0

Source: CARB 2015

μg/m3 = micrograms per cubic meter; ppm = parts per million

2.2 REGULATORY FRAMEWORK

The federal Clean Air Act of 1971 and the Clean Air Act Amendments (1977) established the national ambient air quality standards (NAAQS), which are promulgated by the US Environmental Protection Agency (EPA). The State of California has also adopted its own California ambient air quality standards (CAAQS), which are promulgated by the California Air Resources Board (CARB). The White Rock Springs Ranch development would occur in the Sacramento Valley Air Basin, which is under the air quality regulatory jurisdiction of the SMAQMD and is subject to the rules and regulations adopted by the air district to achieve attainment with the NAAQS and CAAQS.

As previously described, the Folsom Plan Area Specific Plan EIR/EIS was certified by the City Council on June 14, 2011. The Specific Plan EIR/EIS evaluates air quality impacts, including compliance with federal, state, and regional air quality standards, associated with the development of a range of different land uses at various densities on more than 3,500 acres. The EIR/EIS identifies significance thresholds for all project impacts and includes specific mitigation measures to address both site-specific and cumulative air quality–related effects of development. The White Rock Springs Ranch development site is located within the Folsom Plan

Area Specific Plan and is thus subject to the air pollutant–reducing mitigation measures contained in the Specific Plan EIR/EIS (see **Appendix A**).

2.3 POTENTIAL AIR QUALITY EFFECTS

The Folsom Plan Area Specific Plan EIR/EIS addressed air quality issues related to the development of the entire Folsom Plan Area Specific Plan, of which the White Rock Springs Ranch development is a part. As previously stated, the White Rock Springs Ranch development will be subject to the MMRP adopted for the Specific Plan, including implementation of mitigation measures required to reduce air quality impacts. The impact evaluation below utilizes the analyses completed in the EIR/EIS to determine the means of compliance with the EIR/EIS by the White Rock Springs Ranch development, or whether implementation of the White Rock Springs Ranch development would result in a new impact on air quality not previously addressed in the EIR/EIS or increase the severity of previously identified EIR/EIS impacts.

Michael Baker International calculated the resultant air pollutant emissions of the White Rock Springs Ranch residential development using the California Emissions Estimator Model (CalEEMod), version 2013.2.2, computer program (see **Appendix C**). CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform for the use of government agencies, land use planners, and environmental professionals. This model is the most current emissions model approved for use in California by various other air districts. Particulate matter concentration and dispersion was modeled for the construction of the residential development using the EPA's AERMOD air toxic dispersion model (see **Appendix D**). AERMOD is a steady-state plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of both surface and elevated sources, and both simple and complex terrain.

CONSTRUCTION-GENERATED EMISSIONS

Construction-generated emissions are temporary and short term but have the potential to represent a significant air quality impact. Construction activities result in the temporary generation of emissions resulting from site grading and excavation, paving, and motor vehicle exhaust associated with construction equipment and worker trips, as well as the movement of construction equipment, especially on unpaved surfaces. Emissions of airborne PM are largely dependent on the amount of ground disturbance associated with site preparation activities.

The SMAQMD has adopted guidelines for determining potential adverse impacts to air quality in the region. The SMAQMD's (2011) Guide to Air Quality Assessment in Sacramento County states that construction activities are considered a potentially significant adverse impact if such activities generate total emissions in excess of SMAQMD-established thresholds. The SMAQMD's established threshold for construction-generated criteria air pollutants is 85 pounds of NO_x generated per day and 50 micrograms per cubic meter ($\mu g/m^3$) of PM_{10} over a 24-hour period. The previous analysis prepared in the Folsom Plan Area Specific Plan EIR/EIS found that construction activities associated with the development of the Folsom Plan Area Specific Plan would contribute to air pollutants to a level that is significant and unavoidable despite the imposition of several mitigation measures that reduce the Specific Plan's construction impact. These measures (listed in **Appendix A**) include the requirement that all construction contractors building in the Folsom Plan Area Specific Plan implement dust control measures and that all heavy-duty construction equipment meet SMAQMD emissions standards which result in the reduction of NO_x and PM_{10} emissions. As previously stated, an MMRP was prepared and adopted with the Specific Plan and is a binding document applicable to the White Rock Springs Ranch residential development. The specific mitigation in the MMRP applicable to White Rock

Springs Ranch construction includes EIR/EIS measures 3A.2-1a, 3A.2-1b, and 3A.2-1c. For instance, mitigation measure 3A.2-1a requires the implementation of appropriate dust control measures and that SMAQMD emissions standards be met for all heavy-duty construction equipment. **Table 2-3** illustrates the specific construction-related criteria and precursor emissions that would result from construction of the White Rock Springs Ranch residential neighborhood accounting for EIR/EIS mitigation measure 3A.2-1a (measures 3A.2-1b and 3A.2-1c cannot be quantified and are described further below).

TABLE 2-3
CONSTRUCTION-RELATED CRITERIA POLLUTANT AND PRECURSOR EMISSIONS
(MAXIMUM POUNDS PER DAY)

Construction Activities	Reactive Organic Gases (ROG)	Nitrogen Oxide (NO_X)	Carbon Monoxide (CO)	Sulfur Dioxide (SO_2)	Coarse Particulate Matter (PM_{10})	Fine Particulate Matter ($PM_{2.5}$)
Year One	1.59	29.85	38.90	0.06	7.96	4.78
Year Two	8.78	31.05	50.31	0.07	3.90	2.63
Year Three	8.55	30.46	48.79	0.07	2.80	2.01
Year Four	8.38	29.95	47.86	0.07	2.76	1.97
Year Five	8.22	29.38	46.89	0.07	2.73	1.94
Year Six	8.11	28.78	46.22	0.07	2.70	1.90
Year Seven	8.04	28.41	45.78	0.07	2.67	1.88
Year Eight	7.97	28.09	45.33	0.07	2.65	1.86
SMAQMD Potentially Significant Impact Threshold	—	85 pounds/day	—	—	—	—
Exceed SMAQMD Threshold?	**No**	**No**	**—**	**—**	**—**	**—**

*Source: CalEEMod version 2013.2.2. See **Appendix C** for emission model outputs.*

Notes: Building construction, paving, and painting assumed to occur simultaneously. Emissions projections account for several components of Folsom Plan Area Specific Plan EIR/EIS mitigation measure 3A.2-1a (i.e., use of wet power vacuum street sweepers, installation of wheel washers for all exiting trucks, watering of exposed areas, limiting equipment speed to 15 mph, planting vegetative ground cover in disturbed areas as soon as possible, treatment of site access with wood chips, mulch, or gravel, and 20 percent NO_X reduction and 45 percent particulate reduction compared to the most current CARB fleet average).

EIR/EIS mitigation measure 3A.2-1b requires that Specific Plan project applicants pay the SMAQMD an off-site mitigation fee for every pound of NO_X that exceeds the air district's emissions threshold of 85 pounds daily. **Table 2-3** illustrates the specific construction-related criteria and precursor emissions that would result from construction of the White Rock Springs Ranch residential development. As demonstrated in **Table 2-3**, construction would not result in the exceedance of the air district's NO_X threshold for daily emissions during construction activities. Since construction activities are not projected to result in the exceedance of the SMAQMD threshold for NO_X, no off-site mitigation fee is required.

As stated in the EIR/EIS, particulate matter is a pollutant of greatest concern with respect to construction activities. While the development site is currently surrounded by undeveloped lands and there are no existing sensitive receptors, these vacant lands are approved for development as part of the Folsom Plan Area Specific Plan. It is possible that at the time of White Rock Springs Ranch construction, receptors may exist in the vicinity. In addition, new residents could occupy

dwellings in the White Rock Springs Ranch residential development itself, before all 395 units are constructed, thus potentially exposing on-site residents to substantial construction-generated PM_{10} concentrations. EIR/EIS mitigation measure 3A.2-1c requires that Specific Plan project applicants prepare detailed dispersion modeling of construction-generated PM_{10} to disclose the PM_{10} concentrations at nearby sensitive receptors. In order to fulfill the requirements of this measure, PM_{10} concentrations associated with the construction of White Rock Springs Ranch were modeled in accordance with applicable SMAQMD guidance (see **Appendix D**). **Figure 2-1** presents the calculated PM_{10} concentrations in the vicinity of the development site. The AERMOD program generated an estimate of 24-hour average concentrations using a 1-year data file of hourly weather observations recorded at Sacramento International Airport. The model results were compared to the SMAQMD significance threshold of 50 µg/m³ over a 24-hour period for construction-generated PM_{10} fugitive dust combined with PM_{10} exhaust. As shown in **Figure 2-1**, toxic concentrations at the sensitive receptors in the project site vicinity would not reach a level beyond the health risk threshold of 50 µg/m³ over a 24-hour period (SMAQMD threshold). As shown, the maximum 24-hour period concentration would reach 3.27 µg/m³.

The White Rock Springs Ranch development consists of a land use mix consistent with the Folsom Plan Area Specific Plan; no Specific Plan amendment is required. As demonstrated, the development complies with the requirements of the EIR/EIS and would not result in an increase in the severity of construction-related air quality impacts. There is not a new or substantially more severe significant impact compared with the significance determination contained in the Specific Plan EIR/EIS.

OPERATIONAL EMISSIONS

The analysis under the EIR/EIS found that the long-term increase of criteria air pollutants resulting from implementation of the Folsom Plan Area would be a significant and unavoidable impact. This conclusion was reached despite required adherence to the SMAQMD-approved Folsom Plan Area Specific Plan Air Quality Mitigation Plan (AQMP) (see **Appendix B**). The AQMP is intended to improve mobility, reduce vehicle miles traveled, and improve air quality. The AQMP includes, among others, measures designed to provide bicycle parking at commercial land uses, an integrated pedestrian/bicycle path network, transit stops with shelters, a prohibition against the use the wood-burning fireplaces, Energy Star roofing materials, electric lawn mowers provided to homeowners at no charge, and on-site transportation alternatives to passenger vehicles (including light rail) that provide connectivity with other local and regional alternative transportation networks. The White Rock Springs Ranch development would be subject to the MMRP adopted for the EIR/EIS, including mitigation measure 3A.2-2, which requires project applicants for any particular discretionary development application in the Folsom Plan Area to implement all measures prescribed in the AQMP, including those just described.

Projected daily emissions from operations of the White Rock Springs Ranch residential development are summarized in **Table 2-4** accounting for the quantifiable components of the AQMP required by EIR/EIS mitigation measure 3A.2-2. Because many required air pollutant–reducing components of the AQMP cannot be quantified due to limitations in the modeling software, projected daily emissions would most likely be less than identified in **Table 2-4**.

TABLE 2-4
OPERATIONS-RELATED CRITERIA POLLUTANT AND PRECURSOR EMISSIONS

Operational Activities	Reactive Organic Gases (ROG)	Nitrogen Oxide (NO_X)	Carbon Monoxide (CO)	Sulfur Dioxide (SO_2)	Coarse Particulate Matter (PM_{10})	Fine Particulate Matter ($PM_{2.5}$)
Summer Emissions – Pounds per Day (Maximum)						
Proposed Project	33.87	30.32	171.43	0.29	19.20	5.66
Winter Emissions – Pounds per Day (Maximum)						
Proposed Project	32.98	34.07	177.32	0.27	19.21	5.66
SMAQMD Potentially Significant Impact Threshold	65 pounds/day	65 pounds/day	—	—	—	—
Exceed SMAQMD Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

*Source: CalEEMod version 2013.2.2. See **Appendix C** for emission model outputs.*

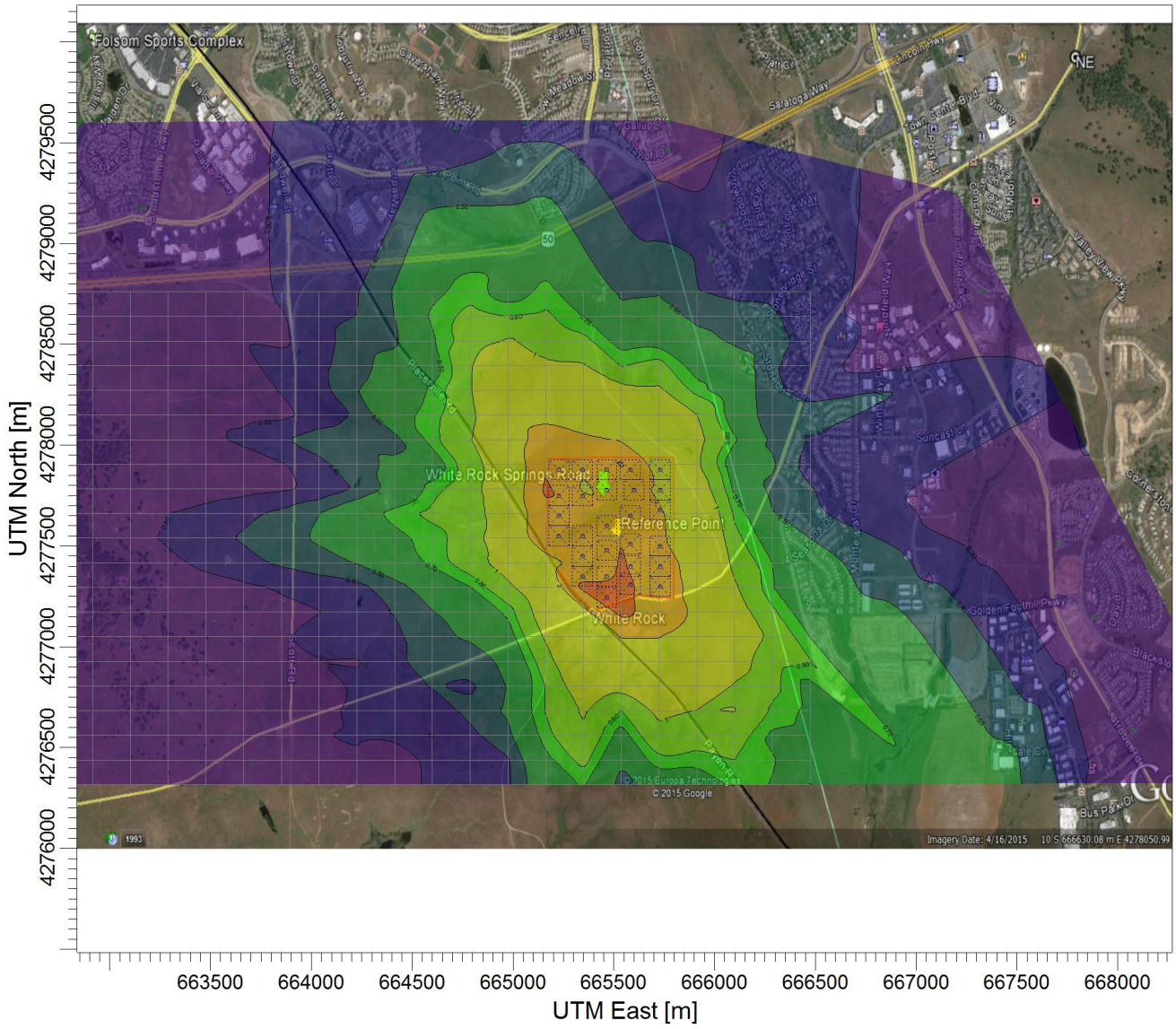
Notes: Emissions projections account for several components of Folsom Plan Area Specific Plan EIR mitigation measure 3A.2-2 (i.e., prohibition against wood-burning stoves and fireplaces, provision of an improved pedestrian network, provision of electric lawn mowers, and proximity to transit (future light rail and AQMP requirement to provide sheltered transit stops).

As shown in **Table 2-4**, operational emissions from the White Rock Springs Ranch development would not exceed SMAQMD significance thresholds for operational air pollutant emissions. Furthermore, as previously described, the development consists of 1.9 additional acres and 15 additional residential units than originally contemplated for the site; however, this increase in acreage and development potential at the site is offset by equal reductions at the Carr Trust property, which is also located in the Folsom Plan Area Specific Plan. Therefore, the White Rock Springs Ranch development consists of a land use mix consistent with the Folsom Plan Area Specific Plan and would not result in an increase in the severity of impacts. The development complies with the requirements of the EIR/EIS, as the project applicant is required to adhere to mitigation measure 3A.2-2, which requires the White Rock Springs Ranch development to implement all measures prescribed in the AQMP. The White Rock Springs Ranch development would not result in an increase in the severity of operational-related air quality impacts compared with the Specific Plan EIR/EIS. There is not a new or substantially more severe significant impact compared with the significance determination contained in the Specific Plan EIR/EIS.

AIR TOXICS

Sensitive land uses are generally defined as locations where people reside or where the presence of air emissions could adversely affect the use of the land. Typical sensitive receptors include residents, schoolchildren, hospital patients, and the elderly. As previously stated, the Specific Plan EIR/EIS evaluates development of 10,210 residential units at various densities on a total of 1,477.2 acres; the development of 362.8 acres designated for commercial and industrial use, including a regional shopping center; public/quasi-public uses; elementary, middle, and high schools on 179.3 acres; 121.7 acres of community and neighborhood parks; stormwater detention basins; 1,053.1 acres of open space areas and open space preserves; and major roads with landscaping (Folsom 2011, p. ES-3).

T:_CSWork\Folsom, City of\White Rock Springs Ranch\Figures



Source: AERMOD View v. 8.8.9.

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KILOMETER

Figure 2-1
PM Dispersion & Concentration

Michael Baker INTERNATIONAL

The previous analysis prepared in the Folsom Plan Area Specific Plan EIR/EIS identified the potential for construction activities to expose on-site residents and other receptors to diesel PM and its associated health risk. The EIR/EIS found that this potential impact could be reduced with the imposition of mitigation requiring project applicants for any particular discretionary development application to develop a plan to reduce the exposure of sensitive receptors to air toxics generated by project construction activity (mitigation measure 3A.2-4a; see **Appendix A**). Each plan is required to be developed by the project applicant in consultation with the SMAQMD. Each plan must be submitted to the City of Folsom for review and approval before the issuance of any grading plans. The plan may include such measures as scheduling activities when the residences are the least likely to be occupied, requiring equipment to be shut off when not in use, and prohibiting heavy trucks from idling. Applicable measures are required to be included in all project plans and specifications for all project phases. The White Rock Springs Ranch development would be subject to the MMRP adopted for the EIR/EIS, including mitigation measure 3A.2-4a. Therefore, the project applicant for White Rock Springs Ranch will be required to prepare a plan to reduce the exposure of sensitive receptors to air toxics generated by project construction activity prior to the issuance of any grading plans. It is also noted that a detailed dispersion model of construction-generated exhaust and fugitive dust PM_{10} concentrations for the White Rock Springs Ranch development was prepared as part of this assessment (see above). As previously shown, toxic PM_{10} concentrations on the White Rock Springs Ranch site and in the surrounding vicinity would not reach a level beyond the health risk threshold of 50 µg/m³ over a 24-hour period (SMAQMD threshold) as a result of the White Rock Springs Ranch development. As demonstrated, the maximum 24-hour period concentration would reach 3.27 µg/m³.

The EIR/EIS also identified the potential for long-term operations to expose receptors to air toxics and associated health risk. The EIR/EIS found that this potential impact could be reduced with the imposition of mitigation (mitigation measure 3A.2-4b). This mitigation predominantly addresses commercial and industrial land uses within the Folsom Plan Area, as residential land uses are not sources of substantial amounts of air toxics. For instance, proposed commercial and industrial land uses that have the potential to emit air toxics must be located away from existing and proposed residential neighborhoods and other sensitive receptors such that they do not expose sensitive receptors to toxic emissions which exceed an incremental increase of 10 in 1 million for the cancer risk and/or a noncarcinogenic Hazard Index of 1.0. Specifically, proposed commercial and industrial land uses that would host diesel trucks must incorporate idling reduction strategies that reduce the main propulsion engine idling time through alternative technologies such as IdleAire, electrification of truck parking, and alternative energy sources for transport refrigeration units to allow diesel engines to be completely turned off. Mitigation measure 3A.2-4b also mandates that sensitive receptors, such as residential units, not be located within 300 feet of any dry-cleaning operation or gasoline station. The White Rock Springs Ranch residential development site is not located in proximity to any dry-cleaning operations or gasoline stations. In addition, any future industrial or commercial land uses proposed in proximity to the White Rock Springs Ranch residential neighborhood would be required to comply with the air toxic–mitigating components of mitigation measure 3A.2-4b.

Both construction and operation of the White Rock Springs Ranch development comply with the requirements of the EIR/EIS and would not result in an increase in the severity of air toxic–related air quality impacts compared with the Specific Plan EIR/EIS. There is not a new or substantially more severe significant impact compared with the significance determination contained in the Specific Plan EIR/EIS.

NATURALLY OCCURRING ASBESTOS

The EIR/EIS identified the potential for serpentine or ultramafic rock to occur in the Folsom Plan Area Specific Plan. Serpentine and ultramafic rock contain naturally occurring asbestos (NOA) that can be released during ground disturbance associated with construction activities. Without proper controls, sensitive receptors near the area of construction could be exposed to localized high levels of NOA. The previous analysis prepared in the Folsom Plan Area Specific Plan EIR/EIS found that construction activities associated with the development of the Folsom Plan Area Specific Plan would be less than significant with the imposition of mitigation requiring that a site investigation be performed to determine whether and where NOA is present in the soil and rock on the construction site (mitigation measure 3A.2-5; see **Appendix A**). The site investigation required by this mitigation includes the collection of soil and rock samples by a qualified geologist. If the site investigation determines that NOA is present on the construction site, the project applicant must prepare an asbestos dust control plan for SMAQMD approval as required in Title 17, Section 93105, of the California Code of Regulations, Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining Operations. The asbestos dust control plan is required to specify measures, such as periodic watering, to reduce airborne dust and cease construction during high winds.

The White Rock Springs Ranch development would be subject to the MMRP adopted for the EIR/EIS, including mitigation measure 3A.2-5. Therefore, the White Rock Springs Ranch development will be required to retain a qualified geologist to perform a site investigation of the development site. If NOA is found, the applicant will be required to submit an asbestos dust control plan to the City of Folsom Community Development Department and the SMAQMD for review and approval before construction of the first project phase. SMAQMD approval of the plan must be received before any asbestos-containing rock (serpentinite) can be disturbed. Upon the SMAQMD's approval of the asbestos dust control plan, the applicant is required to ensure that construction contractors implement the terms of the plan throughout the construction period.

The White Rock Springs Ranch development consists of a land use mix consistent with the Folsom Plan Area Specific Plan; no Specific Plan amendment is required. As demonstrated, the development complies with the requirements of the EIR/EIS and would not result in an increase in the severity of NOA-related impacts. There is not a new or substantially more severe significant impact compared with the significance determination contained in the Specific Plan EIR/EIS.

CARBON MONOXIDE HOT SPOTS

Typically, substantial pollutant concentrations of CO are associated with mobile sources (e.g., vehicle idling time). Localized concentrations of CO are associated with congested roadways or signalized intersections operating at poor levels of service (LOS E or lower). High concentrations of CO may negatively affect local sensitive receptors (e.g., residents, schoolchildren, or hospital patients). The EIR/EIS found that the operations of the entire Specific Plan would contribute to concentrations of CO at a level that is less than significant without the need for any mitigation. As previously described, the development consists of 1.9 additional acres and 15 additional residential units than originally contemplated for the site; however, this increase in acreage and development potential at the site is offset by equal reductions at the Carr Trust property, which is also located in the Folsom Plan Area Specific Plan. Therefore, the White Rock Springs Ranch development consists of a land use mix consistent with the Folsom Plan Area Specific Plan and would not result in an increase in the severity of CO-related impacts. There is not a new or substantially more severe significant impact compared with the significance determination contained in the Specific Plan EIR.

ODORS

The previous analysis prepared in the Folsom Plan Area Specific Plan EIR/EIS found that odors generated during construction activities associated with the development of the Folsom Plan Area Specific Plan would be significant and unavoidable despite the imposition of mitigation that reduces the Specific Plan's construction-related odor impacts. Odor-reducing mitigation (mitigation measure 3A.2-1a; see **Appendix A**) includes the requirement that all construction contractors building in the Folsom Plan Area implement dust control measures and that all heavy-duty construction equipment meet SMAQMD emissions standards which result in the reduction of odorous emissions. As previously stated, an MMRP was prepared and adopted with the Specific Plan and is a binding document applicable to the White Rock Springs Ranch residential development.

The previous analysis prepared in the EIR/EIS found that operational activity associated with the development of the Folsom Plan Area Specific Plan would be less than significant with the imposition of mitigation that protects residential neighborhoods and other sensitive receptors from odor-generating land uses such as commercial and industrial development. For instance, EIR/EIS mitigation measure 3A.2-6 requires the consideration of odors potentially emitted from commercial and industrial facilities proposed to be located in the proximity of sensitive receptors. If determined necessary and before the approval of building permits, odor control devices must be identified and placed to mitigate the exposure of receptors to objectionable odors. The identified odor control devices must be installed before the issuance of certificates of occupancy for the potentially odor-producing use. The odor-producing potential of a source and control devices must be determined in coordination with the SMAQMD.

Both construction and operation of the White Rock Springs Ranch development comply with the requirements of the EIR/EIS and would not result in an increase in the severity of odor-related impacts compared with the Specific Plan EIR/EIS. There is not a new or substantially more severe significant impact compared with the significance determination contained in the Specific Plan EIR/EIS.

CONCLUSION

The Folsom Plan Area Specific Plan EIR/EIS evaluated development on all the properties within the ±3,500-acre Folsom Plan Area at the program level and included specific mitigation measures to address both site-specific and cumulative effects of development. The Specific Plan establishes detailed land use and residential density standards, design standards for residential and nonresidential development, a circulation plan, and environmental protection standards for wetlands and oak woodlands. The Specific Plan EIR/EIS identifies significance thresholds for all project impacts and includes a comprehensive set of mitigation measures to reduce the potential effects of development on air quality, among other issues. An MMRP was prepared and adopted with the Specific Plan. The MMRP is a binding document and would be applicable to the White Rock Springs Ranch residential development.

The White Rock Springs Ranch development consists of a land use mix consistent with the Folsom Plan Area Specific Plan; no Specific Plan amendment is required. While the development consists of 1.9 additional acres and 15 additional residential units than originally contemplated for the site, this increase in acreage and development potential at the site is offset by equal reductions at the Carr Trust property, which is also located in the Folsom Plan Area Specific Plan. As demonstrated with this assessment, the development complies with the requirements of the EIR/EIS. Therefore, since the White Rock Springs Ranch development is consistent with the requirements of the EIR/EIS and consists of the land uses analyzed under the Specific Plan EIR/EIS,

air quality pollutants associated with the White Rock Springs Ranch development would be the same as analyzed in the Specific Plan EIR/EIS and there would not be an increase in the severity of air quality impacts. There would not be a new or substantially more severe significant impact compared with the significance determination contained in the Specific Plan EIR/EIS.

3.1 GREENHOUSE GAS EMISSIONS SETTING

Since the early 1990s, scientific consensus holds that the world's population is releasing GHGs faster than the earth's natural systems can absorb them. These gases are released as byproducts of fossil fuel combustion, waste disposal, energy use, land use changes, and other human activities. This release of gases, such as carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O), creates a blanket around the earth that allows light to pass through but traps heat at the surface, preventing its escape into space. While this is a naturally occurring process known as "the greenhouse effect," human activities have accelerated the generation of GHGs beyond natural levels. The overabundance of GHGs in the atmosphere has led to a warming of the earth and has the potential to severely impact the earth's climate system.

While often used interchangeably, there is a difference between the terms "climate change" and "global warming." According to the National Academy of Sciences, climate change refers to any significant, measurable change of climate lasting for an extended period of time that can be caused by both natural factors and human activities. Global warming, on the other hand, is an average increase in the temperature of the atmosphere caused by increased GHG emissions. The use of the term "climate change" is becoming more prevalent because it encompasses all changes to the climate, not just temperature.

To fully understand global climate change, it is important to recognize the naturally occurring greenhouse effect and to define the GHGs that contribute to this phenomenon. Various gases in the earth's atmosphere, classified as atmospheric GHGs, play a critical role in determining the earth's surface temperature. Solar radiation enters the earth's atmosphere from space and a portion of the radiation is absorbed by the earth's surface. The earth emits this radiation back toward space, but the properties of the radiation change from high-frequency solar radiation to lower-frequency infrared radiation. Greenhouse gases, which are transparent to solar radiation, are effective in absorbing infrared radiation. As a result, this radiation that otherwise would have escaped back into space is now retained, resulting in a warming of the atmosphere. This phenomenon is known as the greenhouse effect. Among the prominent GHGs associated with land use development that are contributing to the greenhouse effect are CO_2, CH_4, and N_2O.

Each GHG differs in its ability to absorb heat in the atmosphere based on the lifetime, or persistence, of the gas molecule in the atmosphere. For instance, methane traps over 21 times more heat per molecule than CO_2, and N_2O absorbs 310 times more heat per molecule than CO_2. Often, estimates of GHG emissions are presented in carbon dioxide equivalents (CO_2e), which weighs each gas by its global warming potential (GWP). Expressing GHG emissions in CO_2e takes the contribution of all GHG emissions to the greenhouse effect and converts them to a single unit equivalent to the effect that would occur if only CO_2 were being emitted.

3.2 REGULATORY FRAMEWORK

California has adopted various administrative initiatives and also enacted a variety of legislation relating to climate change, much of which sets aggressive goals for GHG emissions reductions in the state. However, none of this legislation provides definitive direction regarding the treatment of climate change in environmental review documents prepared under the California Environmental Quality Act (CEQA). In particular, the CEQA Guidelines do not require or suggest specific methodologies for performing an assessment or specific thresholds of significance and do not specify GHG reduction mitigation measures. Instead, the guidelines allow lead agencies to choose methodologies and make significance determinations based on substantial evidence, as discussed in further detail below. In addition, no state agency has promulgated binding regulations for analyzing GHG emissions, determining their significance, or mitigating

significant effects in CEQA documents. Thus, lead agencies exercise their discretion in determining how to analyze GHGs.

The primary acts that have driven GHG regulation and analysis in California include the California Global Warming Solutions Act of 2006 (AB 32) (Health and Safety Code Sections 38500, 38501, 28510, 38530, 38550, 38560, 38561–38565, 38570, 38571, 38574, 38580, 38590, 38592–38599), which instructs CARB to develop and enforce regulations for the reporting and verifying of statewide GHG emissions. The act directed CARB to set a greenhouse gas emissions limit based on 1990 levels, to be achieved by 2020. The bill set a timeline for adopting a scoping plan for achieving GHG reductions in a technologically and economically feasible manner. The heart of the bill is the requirement that statewide GHG emissions be reduced to 1990 levels by 2020.

AB 32 Scoping Plan

CARB adopted the Scoping Plan to achieve the goals of Assembly Bill (AB) 32. The Scoping Plan establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. CARB determined that achieving the 1990 emissions level would require a reduction of GHG emissions of approximately 29 percent below what would otherwise occur in 2020 in the absence of new laws and regulations (referred to as "business as usual"). The Scoping Plan evaluates opportunities for sector-specific reductions, integrates all CARB and Climate Action Team early actions and additional GHG reduction measures by both entities, identifies additional measures to be pursued as regulations, and outlines the role of a cap-and-trade program. Additional development of these measures and adoption of the appropriate regulations occurred through the end of year 2013. Key elements of the Scoping Plan include:

- Expanding and strengthening existing energy efficiency programs, as well as building and appliance standards.
- Achieving a statewide renewables energy mix of 33 percent.
- Developing a California cap-and-trade program that links with other Western Climate Initiative partner programs to create a regional market system and caps sources contributing 85 percent of California's GHG emissions.
- Establishing targets for transportation-related GHG emissions for regions throughout California, and pursuing policies and incentives to achieve those targets.
- Adopting and implementing measures pursuant to existing state laws and policies, including California's clean car standards, heavy-duty truck measures, and the Low Carbon Fuel Standard.
- Creating targeted fees, including a public goods charge on water use, fees on high global warming potential gases, and a fee to fund the administrative costs of the State of California's long-term commitment to AB 32 implementation (CARB 2008).

In 2012, CARB released revised estimates of the expected 2020 emissions reductions. The revised analysis relies on emissions projections updated in light of current economic forecasts that account for the economic downturn since 2008, reduction measures already approved and put in place relating to future fuel and energy demand, and other factors. This reduced the projected 2020 emissions from 596 million metric tons (MMT) CO_2e to 545 $MMTCO_2e$. The reduction in projected 2020 emissions means that the revised business-as-usual (BAU) reduction necessary to achieve AB 32's goal of reaching 1990 levels by 2020 is now 21.7 percent. CARB also provided a

lower 2020 inventory forecast that took credit for certain State-led GHG emissions reduction measures already in place. When this lower forecast is considered, the necessary reduction from BAU needed to achieve the goals of AB 32 is approximately 16 percent.

AB 32 requires CARB to update the Scoping Plan at least once every five years. CARB adopted the first major update to the Scoping Plan on May 22, 2014. The updated Scoping Plan summarizes the most recent science related to climate change, including anticipated impacts to California and the levels of GHG reduction necessary to likely avoid risking irreparable damage. It identifies the actions California has already taken to reduce GHG emissions and focuses on areas where further reductions could be achieved to help meet the 2020 target established by AB 32. The Scoping Plan update also looks beyond 2020 toward the 2050 goal established in Executive Order S-3-05, though not yet adopted as state law, and observes that "a mid-term statewide emission limit will ensure that the State stays on course to meet our long-term goal." The Scoping Plan update does not establish or propose any specific post-2020 goals, but identifies such goals adopted by other governments or recommended by various scientific and policy organizations. **Table 3-1** provides a brief overview of the other California legislation relating to climate change that may affect the emissions associated with the White Rock Springs Ranch development.

TABLE 3-1
CALIFORNIA STATE CLIMATE CHANGE LEGISLATION

Legislation	Description
Assembly Bill 1493 and Advanced Clean Cars Program	Assembly Bill 1493 ("the Pavley Standard," or AB 1493, 2005) (Health and Safety Code Sections 42823 and 43018.5) aimed to reduce GHG emissions from noncommercial passenger vehicles and light-duty trucks of model years 2009–2016. By 2025, when all rules will be fully implemented, new automobiles will emit 34 percent fewer CO_2e emissions and 75 percent fewer smog-forming emissions.
Low Carbon Fuel Standard (LCFS)	Executive Order S-01-07 (2007) requires a 10 percent or greater reduction in the average fuel carbon intensity for transportation fuels in California. The regulation took effect in 2010 and is codified at Title 17, California Code of Regulations, Sections 95480–95490. The LCFS will reduce greenhouse gas emissions by reducing the carbon intensity of transportation fuels used in California by at least 10 percent by 2020.
Renewables Portfolio Standard (Senate Bill X1-2)	California's Renewables Portfolio Standard (RPS) requires retail sellers of electric services to increase procurement from eligible renewable energy resources to 33 percent of total retail sales by 2020. The 33 percent standard is consistent with the RPS goal established in the Scoping Plan. As an interim measure, the RPS requires 25 percent of retail sales to be sourced from renewable energy by 2016.
Senate Bill 375*	Senate Bill (SB) 375 (codified in the Government Code and the Public Resources Code) took effect in 2008 and provides for a new planning process to coordinate land use planning, regional transportation plans, and funding priorities in order to help California meet the GHG reduction goals established in AB 32. SB 375 requires metropolitan planning organizations (MPOs) to incorporate a Sustainable Communities Strategy (SCS) in their Regional Transportation Plans that will achieve GHG emissions reduction targets by reducing vehicle miles traveled from light-duty vehicles through the development of more compact, complete, and efficient communities.
California Building Energy Efficiency Standards	In general, the California Building Energy Efficiency Standards require the design of building shells and building components to conserve energy. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. The California Energy Commission recently adopted changes to the 2013 Building Energy Efficiency Standards contained in the California Code of Regulations, Title 24, Part 6 (also known as the California Energy Code) and associated administrative regulations in Part 1 (collectively referred to here as the standards). The amended standards took effect in the summer of 2014. The 2013 Building Energy Efficiency Standards are 25 percent more efficient than previous standards for residential construction and 30 percent better for nonresidential construction. The standards offer builders better windows, insulation, lighting, ventilation systems, and other features that reduce energy consumption in homes and businesses. Energy-efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions.
California Green Building Standards	In January 2010, the California Building Standards Commission adopted the statewide mandatory Green Building Standards Code (CALGreen [California Code of Regulations, Title 24, Part 11]). CALGreen applies to the planning, design, operation, construction, use, and occupancy of every newly constructed building or structure. CALGreen requires energy conservation measures for new buildings and structures.

** Senate Bill 375 is codified at Government Code Sections 65080, 65400, 65583, 65584.01, 65584.02, 65584.04, 65587, 65588, 14522.1, 14522.2, and 65080.01, as well as at Public Resources Code Sections 21061.3 and 21159.28 and Chapter 4.2.*

3.3 POTENTIAL GREENHOUSE GAS EMISSIONS EFFECTS

The Folsom Plan Area Specific Plan EIR/EIS (SCH# 2008092051) addressed GHG-related issues related to the development of the entire Folsom Plan Area Specific Plan, of which the White Rock Springs Ranch development is a part. As previously stated, the White Rock Springs Ranch development will be subject to the MMRP adopted for the Folsom Plan Area Specific Plan, including implementation of mitigation measures required to reduce GHG-related impacts. The impact evaluation below utilizes the analyses completed in the EIR/EIS to determine the means of compliance with the EIR/EIS by the White Rock Springs Ranch development, or whether implementation of the White Rock Springs Ranch development would result in a new impact associated with the generation of GHG emissions not previously addressed in the EIR/EIS or would increase the severity of previously identified EIR/EIS impacts.

Michael Baker International calculated the resultant GHG emissions of the White Rock Springs Ranch residential development using the CalEEMod, version 2013.2.2, computer program (see **Appendix E**). CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform for the use of government agencies, land use planners, and environmental professionals. This model is the most current emissions model approved for use in California by the SMAQMD.

CONSTRUCTION-GENERATED GHG EMISSIONS

GHG emissions associated with the White Rock Springs Ranch development would occur over the short term from construction activities, consisting primarily of emissions from equipment exhaust. The previous analysis prepared in the Folsom Plan Area Specific Plan EIR/EIS found that construction activities associated with the development of the Folsom Plan Area Specific Plan would contribute to GHG emissions to a level that is significant. The EIR/EIS imposed mitigation measures (listed in **Appendix A**) to reduce the Specific Plan's construction-related GHG emissions impact. As previously stated, an MMRP was prepared and adopted with the Specific Plan and is a binding document applicable to the White Rock Springs Ranch residential development. The specific mitigation in the MMRP applicable to White Rock Springs Ranch construction includes EIR/EIS measures 3A.2-1a, 3A.2-1b, and 3A.4-1. For instance, mitigation measure 3A.2-1a requires that SMAQMD emissions standards be met for all heavy-duty construction equipment. Mitigation measure 3A.4-1 requires project applicants to implement all feasible measures for reducing GHG emissions associated with construction that are recommended by the SMAQMD at the time individual portions of the site undergo construction. Current SMAQMD-recommended mitigation measures for reducing construction-generated GHG emissions include the following:

- Improve fuel efficiency from construction equipment:
  - Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to no more than 3 minutes (5-minute limit is required by the state Airborne Toxics Control Measure [California Code of Regulations, Title 13, Sections 2449(d)(3) and 2485]). Provide clear signage that posts this requirement for workers at the entrances to the site.
  - Maintain all construction equipment in proper working condition according to manufacturers' specifications. The equipment must be checked by a certified mechanic and determined to be running in proper condition before it is operated.
  - Train equipment operators in proper use of equipment.

  - Use the proper size of equipment for the job.
  - Use equipment with new technologies (repowered engines, electric drive trains).

- Perform on-site material hauling with trucks equipped with on-road engines (if determined to be less emissive than the off-road engines).
- Use alternative fuels for generators at construction sites such as propane or solar, or use electrical power.
- Use a CARB-approved low carbon fuel for construction equipment. (NO_x emissions from the use of low carbon fuel must be reviewed and increases mitigated.)
- Encourage and provide carpools, shuttle vans, transit passes, and/or secure bicycle parking for construction worker commutes.
- Reduce electricity use in the construction office by using compact fluorescent bulbs, powering off computers every day, and replacing heating and cooling units with more efficient ones.
- Recycle or salvage nonhazardous construction and demolition debris (goal of at least 75 percent by weight).
- Use locally sourced or recycled materials for construction materials (goal of at least 20 percent based on costs for building materials, and based on volume for roadway, parking lot, sidewalk, and curb materials). Wood products utilized should be certified through a sustainable forestry program.
- Minimize the amount of concrete for paved surfaces or utilize a low carbon concrete option.
- Produce concrete on-site if determined to be less emissive than transporting ready mix.
- Use SmartWay certified trucks for deliveries and equipment transport.
- Develop a plan to efficiently use water for adequate dust control.

As mandated by mitigation measure 3A.4-1, the White Rock Springs Ranch applicant is required to submit a report to the City of Folsom and the SMAQMD substantiating the employment of these GHG-reducing measures and stating the reasons any specific measures are considered infeasible for construction of that particular development phase. The report must be approved by the City, in consultation with the SMAQMD, prior to the release of a request for bid by the applicant seeking a primary contractor to manage the construction of the White Rock Springs Ranch development. Because the list of feasible measures is established prior to the selection of a primary contractor, this measure requires a contractor to effectively implement the selected GHG reduction measures.

Table 3-2 illustrates the specific construction-generated GHG emissions that would result from construction of the White Rock Springs Ranch residential development. None of the required GHG emissions–reducing components of mitigation measure 3A.4-1 can be quantified due to limitations in the modeling software. Nonetheless, projected emissions would most likely be less than identified in **Table 3-2**.

TABLE 3-2
CONSTRUCTION-RELATED GREENHOUSE GAS EMISSIONS
(METRIC TONS PER YEAR)

Emissions Source	CO_2e
Year One	652
Year Two	802
Year Three	858
Year Four	842
Year Five	827
Year Six	822
Year Seven	817
Year Eight	483
Total	**6,103**

*Source: CalEEMod version 2013.2.2. See **Appendix E** for emission model outputs.*

The White Rock Springs Ranch development consists of a land use mix consistent with the Folsom Plan Area Specific Plan; no Specific Plan amendment is required. As previously described, the development consists of 1.9 additional acres and 15 additional residential units than originally contemplated for the site; however, this increase in acreage and development potential at the site is offset by equal reductions at the Carr Trust property, which is also located in the Folsom Plan Area Specific Plan. Therefore, the White Rock Springs Ranch development consists of a land use mix consistent with the Folsom Plan Area Specific Plan and would not result in an increase in the severity of impacts. As demonstrated, the development complies with the requirements of the EIR/EIS. The residential development would not result in an increase in the severity of construction-related climate change impacts from GHG emissions. There is not a new or substantially more severe significant impact compared with the significance determination contained in the Specific Plan EIR/EIS.

OPERATIONAL-GENERATED GHG EMISSIONS

The previous analysis prepared in the Folsom Plan Area Specific Plan EIR/EIS found that operations associated with the development of the Folsom Plan Area Specific Plan would contribute to GHG emissions to a level that is significant and unavoidable despite the imposition of mitigation measures (listed in **Appendix A**) designed to reduce the Specific Plan's operations-related GHG emissions impact. As previously stated, an MMRP was prepared and adopted with the Specific Plan and is a binding document applicable to the White Rock Springs Ranch residential development. The specific mitigation in the MMRP applicable to White Rock Springs Ranch operations includes EIR/EIS measures 3A.2-2, 3A.4-2a, and 3A.4-2b. Mitigation measure 3A.2-2 requires the White Rock Springs Ranch applicant to implement all measures prescribed in the Folsom Plan Area Specific Plan Air Quality Management Plan, described above. The AQMP is intended to improve mobility and reduce vehicle miles traveled. The AQMP includes, among others, measures designed to provide bicycle parking at commercial land uses, an integrated pedestrian/bicycle path network, transit stops with shelters, a prohibition against the use the wood-burning fireplaces, Energy Star roofing materials, electric lawn mowers provided to homeowners at no charge, and on-site transportation alternatives to passenger vehicles (including light rail) that provide connectivity with other local and regional alternative transportation networks. Mitigation measure 3A.4-2a requires a development-specific

environmental review demonstrating that GHG emissions from White Rock Springs Ranch operations be reduced by an amount sufficient to achieve SMAQMD-adopted GHG significance thresholds.

Therefore, the White Rock Springs Ranch development is compared to the emissions reductions goals of the SMAQMD-adopted GHG significance thresholds in order to comply with the requirements of the EIR/EIS. In order to compare the White Rock Springs Ranch development to the SMAQMD thresholds, the residential development is compared to the achievement of at least a 21.7 percent reduction in GHG emissions as compared to a No Action Taken (NAT) scenario.[1] In order to ascertain the achievement of a 21.7 percent reduction compared to NAT, quantification of development-specific GHG emissions is required. A development demonstrated to have reduced or mitigated its GHG emissions by at least 21.7 percent compared to NAT would be determined to have a less than significant individual and cumulative effect on global climate change.

As shown in **Table 3-3**, the White Rock Springs Ranch residential development could produce 6,362 metric tons of CO_2e annually under NAT conditions, primarily from motor vehicles that travel to and from the site. For purposes of this assessment, the total emissions of 6,362 metric tons of CO_2e per year are considered the NAT figure.

TABLE 3-3
ESTIMATED GREENHOUSE GAS EMISSIONS UNDER NAT OPERATIONS (METRIC TONS PER YEAR)

Emissions Source	CO_2e
Area Source (landscaping, hearth)	7
Energy	1,556
Mobile	4,561
Waste	173
Water	66
Total	**6,362**

*Source: CalEEMod version 2013.2.2. See **Appendix E** for emission model outputs.*

Notes: NAT emissions projections account for development-generated emissions without any greenhouse gas reduction measures; i.e., emissions presented are not adjusted for future improved CAFÉ standards (Pavley I) and Low Carbon Fuel Standards, or the 2011 Renewables Portfolio Standard or 2013 Building Energy Efficiency Standards.

As previously stated, several State-led GHG emissions–reducing regulations have recently taken effect, and changes to regulations will continue to take effect in the near future that will substantially reduce GHG emissions. For instance, the anticipated reduction associated with the Pavley Standard and the Low Carbon Fuel Standard represent 1,089 fewer metric tons per year of GHGs attributed to the White Rock Springs Ranch development (see **Table 3-4**). The Sacramento Municipal Utility District, the electricity provider for Folsom, is subject to California's Renewables Portfolio Standard, as described above. In addition, the California Energy Commission recently adopted changes to the 2013 Building Energy Efficiency Standards contained in the California Code of Regulations, resulting in standards that are 25 percent more efficient than previous standards for residential construction. Due to the Renewables Portfolio

[1] A No Action Taken (NAT) scenario does not take into account any reductions from GHG reduction measures included in the AB 32 Scoping Plan. It, in effect, is a projection of GHG emissions in the future if we assume that California proceeds as business as usual without taking any measures to reduce GHG emissions pursuant to AB 32 mandates.

Standard and the 2013 Building Energy Efficiency Standards, the White Rock Springs Ranch development would generate 284 fewer metric tons per year of GHGs (12 fewer metric tons per year attributed to water conveyance), as shown in **Table 3-4**.

The EIR/EIS imposed mitigation measures to reduce the Specific Plan's operational-related GHG emissions impact. As previously stated, an MMRP was prepared and adopted with the Specific Plan and is a binding document applicable to the White Rock Springs Ranch residential development. Mitigation measure 3A.2-2 requires adherence to all measures prescribed in the AQMP, described above. In addition to requiring a development-specific GHG emissions evaluation, mitigation measure 3A.4-2 requires GHG-reducing measures such as designing buildings to meet the California Energy Commission's Tier II requirements, implementing water conservation techniques such as water-efficient irrigation systems and fixtures, and providing storage areas for recyclables. Taking into account the quantifiable components of these mitigation measures, the development would result in 259 fewer metric tons per year of CO_2e from mobile sources, 2 fewer metric tons per year from area sources, and 224 fewer metric tons per year of CO_2e from energy consumption, as shown in **Table 3-4**.

TABLE 3-4
GHG REDUCTIONS FROM APPLICATION OF FOLSOM PLAN AREA SPECIFIC PLAN MITIGATION AND RECENT REGULATIONS

Reduction Source	CO_2e Emissions Reductions (metric tons/year)
Folsom Plan Area Specific Plan EIR mitigation measures 3A.2-2 and 3A.4-2	-485
State-Led GHG Reducing Regulations	
AB 1493 (Pavley) and Low Carbon Fuel Standard	-1,089
2011 Renewables Portfolio Standard and 2013 Building Energy Efficiency Standards	-284
Total	**-1,858**

*Source: CalEEMod version 2013.2.2. See **Appendix E** for emission model outputs.*

Notes: Emissions projections account for several components of Folsom Plan Area Specific Plan EIR mitigation measure 3A.2-2; i.e., prohibition against wood-burning stoves and fireplaces, provision of an improved pedestrian network, provision of electric lawn mowers, proximity to transit (future light rail and AQMP requirement to provide sheltered transit stops). Emissions projections also account for several components of Folsom Plan Area Specific Plan EIR mitigation measure 3A.4-2; i.e., designing buildings to meet California Energy Commission Tier II requirements, provision of water-efficient irrigation systems and fixtures.

As shown, implementation of Folsom Plan Area Specific Plan EIR/EIS mitigation measures 3A.2-2 and 3A.4-2 in conjunction with State-led GHG reduction measures such as Pavley, the Low Carbon Fuel Standard, 2013 Building Energy Efficiency Standards, and the Renewables Portfolio Standard would reduce project GHG emissions by 29.2 percent compared with NAT, which is beyond the 21.7 percent reduction threshold. **Table 3-5** provides a summary of White Rock Springs Ranch GHG reductions attributable to state regulations enacted determining the 21.7 percent reduction needed to achieve compliance with the SMAQMD significance threshold.

TABLE 3-5
SUMMARY OF GHG REDUCTIONS

Emissions Reduction Summary	CO_2 Emissions (metric tons/year)
Total No Action Taken (NAT) Emissions	**6,362**
State-Led Regulatory Reduction	-1,373
Folsom Plan Area Specific Plan EIR/EIS mitigation measures 3A.2-2 and 3A.4-2	-485
Project Emissions After Reductions	**4,504**
Percentage Reduction from Business as Usual	29.2
Percentage Reduction Threshold for Less than Significant Determination	21.7

The GHG emissions from implementation of the White Rock Springs Ranch residential development are projected to result in 4,504 metric tons of CO_2e per year (**Table 3-5**). As projected, business-as-usual emissions would be reduced by 29.2 percent from NAT, which is greater than the 21.7 percent threshold, so the development is considered consistent with the SMAQMD significance threshold.

As demonstrated, the development complies with the requirements of the EIR/EIS and would not result in an increase in the severity of operational GHG emission-related impacts. There is not a new or substantially more severe significant impact compared with the significance determination contained in the Specific Plan EIR/EIS.

CONCLUSION

The Folsom Plan Area Specific Plan EIR/EIS evaluated development on all the properties in the ±3,500-acre Plan Area at the program level and included specific mitigation measures to address both site-specific and cumulative effects of development. The Specific Plan establishes detailed land use and residential density standards, design standards for residential and nonresidential development, a circulation plan, and environmental protection standards for wetlands and oak woodlands. The Specific Plan EIR/EIS identifies significance thresholds for all project impacts and includes a comprehensive set of mitigation measures to reduce the potential effects of GHG emissions generated from new development, among other issues. An MMRP was prepared and adopted with the Specific Plan. The MMRP is a binding document and would be applicable to the White Rock Springs Ranch residential development.

The White Rock Springs Ranch development consists of a land use mix consistent with the Folsom Plan Area Specific Plan; no Specific Plan amendment is required. While the development consists of 1.9 additional acres and 15 additional residential units than originally contemplated for the site, this increase in acreage and development potential at the site is offset by equal reductions at the Carr Trust property, which is also located in the Folsom Plan Area Specific Plan. As demonstrated with this assessment, the development complies with the requirements of the EIR/EIS. The White Rock Springs Ranch residential development emissions would be reduced by 29.2 percent from NAT due to the required implementation of EIR/EIS mitigation measures in conjunction with State-led GHG reduction measures such as the Pavley Standard, the Low Carbon Fuel Standard, 2013 Building Energy Efficiency Standards, and the Renewables Portfolio Standard. Therefore, since the White Rock Springs Ranch development is consistent with the requirements of the EIR/EIS and consists of the land uses analyzed under the Specific Plan EIR/EIS, GHG emissions associated with the White Rock Springs Ranch development would be the same

as analyzed in the Specific Plan EIR/EIS and there would not be an increase in the severity of climate change impacts from GHG emissions. There would not be a new or substantially more severe significant impact compared with the significance determination contained in the Specific Plan EIR/EIS.

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APPENDIX A

FOLSOM AREA PLAN AIR QUALITY AND GREENHOUSE GAS EMISSION- RELATED MITIGATION MEASURES

FOLSOM PLAN AREA SPECIFIC PLAN EIR/EIS AIR QUALITY-RELATED MITIGATION MEASURES

1. **Specific Plan EIR Mitigation Measure 3A.2-1a: Implement Measures to Control Air Pollutant Emissions Generated by Construction of On-Site Elements.** To reduce short-term construction emissions, the project applicant(s) for any particular discretionary development application shall require their contractors to implement SMAQMD's list of Basic Construction Emission Control Practices, Enhanced Fugitive PM Dust Control Practices, and Enhanced Exhaust Control Practices (list below) in effect at the time individual portions of the site undergo construction. In addition to SMAQMD-recommended measures, construction operations shall comply with all applicable SMAQMD rules and regulations.

   Basic Construction Emission Control Practices

   - Water all exposed surfaces two times daily. Exposed surfaces include, but are not limited to soil piles, graded areas, unpaved parking areas, staging areas, and access roads.
   - Cover or maintain at least two feet of free board space on haul trucks transporting soil, sand, or other loose material on the site. Any haul trucks that would be traveling along freeways or major roadways should be covered.
   - Use wet power vacuum street sweepers to remove any visible trackout mud or dirt onto adjacent public roads at least once a day. Use of dry power sweeping is prohibited.
   - Limit vehicle speeds on unpaved roads to 15 miles per hour (mph).
   - All roadways, driveways, sidewalks, parking lots to be paved should be completed as soon as possible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used.
   - Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 3 minutes (as required by the Sacramento Metropolitan Air Quality Management District). Provide clear signage that posts this requirement for workers at the entrances to the site.
   - Maintain all construction equipment in proper working condition according to manufacturer's specifications. The equipment must be checked by a certified mechanic and determine to be running in proper condition before it is operated.

   Enhanced Fugitive PM Dust Control Practices – Soil Disturbance Areas

   - Water exposed soil with adequate frequency for continued moist soil.[1] However, do not overwater to the extent that sediment flows off the site.
   - Suspend excavation, grading, and/or demolition activity when wind speeds exceed 20 mph.
   - Plant vegetative ground cover (fast-germinating native grass seed) in disturbed areas as soon as possible. Water appropriately until vegetation is established.

   Enhanced Fugitive PM Dust Control Practices – Unpaved Roads

   - Install wheel washers for all exiting trucks, or wash off all trucks and equipment leaving the site.

[1] The City of Folsom currently requires the use of non-potable water for this activity.

- Treat site accesses to a distance of 100 feet from the paved road with a 6 to 12-inch layer of wood chips, mulch, or gravel to reduce generation of road dust and road dust carryout onto public roads.
- Post a publicly visible sign with the telephone number and person to contact at the construction site regarding dust complaints. This person shall respond and take corrective action within 48 hours. The phone number of SMAQMD and the City contact person shall also be posted to ensure compliance.

Enhanced Exhaust Control Practices

- The project shall provide a plan, for approval by the City of Folsom Community Development Department and SMAQMD, demonstrating that the heavy-duty (50 horsepower [hp] or more) off-road vehicles to be used in the construction project, including owned, leased, and subcontractor vehicles, will achieve a project wide fleet-average 20% NOX reduction and 45% particulate reduction compared to the most current California Air Resources Board (ARB) fleet average that exists at the time of construction. Acceptable options for reducing emissions may include use of late-model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, and/or other options as they become available. The project applicant(s) of each project phase or its representative shall submit to the City of Folsom Community Development Department and SMAQMD a comprehensive inventory of all off-road construction equipment, equal to or greater than 50 hp, that would be used an aggregate of 40 or more hours during any portion of the construction project. The inventory shall include the horsepower rating, engine production year, and projected hours of use for each piece of equipment. The inventory shall be updated and submitted monthly throughout the duration of the project, except that an inventory shall not be required for any 30-day period in which no construction activity occurs. At least 48 hours prior to the use of heavy-duty off-road equipment, the project representative shall provide SMAQMD with the anticipated construction timeline including start date, and name and phone number of the project manager and on-site foreman. SMAQMD's Construction Mitigation Calculator can be used to identify an equipment fleet that achieves this reduction. The project shall ensure that emissions from all off-road diesel powered equipment used on the SPA do not exceed 40% opacity for more than three minutes in any one hour. Any equipment found to exceed 40 percent opacity (or Ringelmann 2.0) shall be repaired immediately, and the City and SMAQMD shall be notified within 48 hours of identification of non-compliant equipment. A visual survey of all in-operation equipment shall be made at least weekly, and a monthly summary of the visual survey results shall be submitted throughout the duration of the project, except that the monthly summary shall not be required for any 30-day period in which no construction activity occurs. The monthly summary shall include the quantity and type of vehicles surveyed as well as the dates of each survey. SMAQMD staff and/or other officials may conduct periodic site inspections to determine compliance. Nothing in this mitigation measure shall supersede other SMAQMD or state rules or regulations.
- If at the time of construction, SMAQMD has adopted a regulation or new guidance applicable to construction emissions, compliance with the regulation or new guidance may completely or partially replace this mitigation if it is equal to or more effective than the mitigation contained herein, and if SMAQMD so permits.

2. **Specific Plan EIR Mitigation Measure 3A.2-1b: Pay Off-site Mitigation Fee to [Sacramento Metropolitan Air Quality Management District] SMAQMD to Off-Set NOX Emissions Generated by Construction of On-Site Elements.** Implementation of the Proposed Project or the other four other action alternatives would result in construction-generated NOX emissions that exceed the SMAQMD threshold of significance, even after implementation of the SMAQMD Enhanced Exhaust Control Practices (listed in Mitigation Measure 3A.2-1a). Additionally, Mitigation Measure 3A.4-1 has the potential to both reduce and increase NOX emissions, depending on the types of alternative fuels and engine types employed.

   Therefore, the project applicant(s) shall pay SMAQMD an off-site mitigation fee for implementation of any of the five action alternatives for the purpose of reducing NOX emissions to a less-than-significant level (i.e., less than 85 lb/day). All NOX emission reductions and increases associated with GHG mitigation shall be added to or subtracted from the amount above the construction threshold to determine off-site mitigation fees, when possible. The specific fee amounts shall be calculated when the daily construction emissions can be more accurately determined: that is, if the City/USACE select and certify the EIR/EIS and approves the Proposed Project or one of the other four other action alternatives, the City and the applicants must establish the phasing by which development would occur, and the applicants must develop a detailed construction schedule. Calculation of fees associated with each project development phase shall be conducted by the project applicant(s) in consultation with SMAQMD staff before the approval of grading plans by the City. The project applicant(s) for any particular discretionary development application shall pay into SMAQMD's off-site construction mitigation fund to further mitigate construction-generated emissions of NOX that exceed SMAQMD's daily emission threshold of 85 lb/day. The calculation of daily NOX emissions shall be based on the cost rate established by SMAQMD at the time the calculation and payment are made. At the time of writing this EIR/EIS the cost rate is $16,000 to reduce 1 ton of NOX plus a 5% administrative fee. The determination of the final mitigation fee shall be conducted in coordination with SMAQMD before any ground disturbance occurs for any project phase. Based on information available at the time of writing this EIR/EIS, and assuming that construction would be performed at a consistent rate over a 19-year period (and averaging of 22 work days per month), it is estimated that the off-site construction mitigation fees would range from $517,410 to $824,149, depending on which alternative is selected. Because the fee is based on the mass quantity of emissions that exceed SMAQMD's daily threshold of significance of 85 lb/day, total fees would be substantially greater if construction activity is more intense during some phases and less intense during other phases of the 19-year build out period, and in any event, based on the actual cost rate applied by SMAQMD. (This fee is used by SMAQMD to purchase off-site emissions reductions. Such purchases are made through SMAQMD's Heavy Duty Incentive Program, through which select owners of heavy-duty equipment in Sacramento County can repower or retrofit their old engines with cleaner engines or technologies.)

3. **Specific Plan EIR Mitigation Measure 3A.2-1c: Analyze and Disclose Projected PM10 Emission Concentrations at Nearby Sensitive Receptors Resulting from Construction of On-Site Elements.** Prior to construction of each discretionary development entitlement of on-site land uses, the project applicant shall perform a project-level CEQA analysis (e.g., supporting documentation for an exemption, negative declaration, or project-specific EIR) that includes detailed dispersion modeling of construction-generated PM10 to disclose what PM10 concentrations would be at nearby sensitive receptors. The dispersion modeling shall be performed in accordance with applicable SMAQMD

guidance that is in place at the time the analysis is performed. At the time of writing this EIR/EIS, SMAQMD's most current and most detailed guidance for addressing construction-generated PM10 emissions is found in its Guide to Air Quality Assessment in Sacramento County. The project-level analysis shall incorporate detailed parameters of the construction equipment and activities, including the year during which construction would be performed, as well as the proximity of potentially affected receptors, including receptors proposed by the project that exist at the time the construction activity would occur.

4. **Specific Plan EIR Mitigation Measure 3A.2-2: Implement All Measures Prescribed by the Air Quality Mitigation Plan to Reduce Operational Air Pollutant Emissions.** To reduce operational emissions, the project applicant(s) for any particular discretionary development application shall implement all measures prescribed in the SMAQMD-approved *Folsom Plan Area Specific Plan Air Quality Mitigation Plan* (AQMP). The AQMP is intended to improve mobility, reduce vehicle miles traveled, and improve air quality as required by AB 32 and SB 375. The AQMP includes, among others, measures designed to provide bicycle parking at commercial land uses, an integrated pedestrian/bicycle path network, transit stops with shelters, a prohibition against the use the wood-burning fireplaces, energy star roofing materials, electric lawnmowers provided to homeowners at no charge, and on-site transportation alternatives to passenger vehicles (including light rail) that provide connectivity with other local and regional alternative transportation networks.

5. **Specific Plan EIR Mitigation Measure 3A.2-4a: Develop and Implement a Plan to Reduce Exposure of Sensitive Receptors to Construction-Generated Toxic Air Contaminant Emissions.** The project applicant(s) for any particular discretionary development application shall develop a plan to reduce the exposure of sensitive receptors to TACs generated by project construction activity associated with buildout of the selected alternative. Each plan shall be developed by the project applicant(s) in consultation with SMAQMD. The plan shall be submitted to the City for review and approval before the approval of any grading plans.

   The plan may include such measures as scheduling activities when the residences are the least likely to be occupied, requiring equipment to be shut off when not in use, and prohibiting heavy trucks from idling. Applicable measures shall be included in all project plans and specifications for all project phases.

   The implementation and enforcement of all measures identified in each plan shall be funded by the project applicant(s) for the respective phase of development.

6. **Specific Plan EIR Mitigation Measure 3A.2-4b: Implement Measures to Reduce Exposure of Sensitive Receptors to Operational Emissions of Toxic Air Contaminants.** The following measures shall be implemented to reduce exposure of sensitive receptors to Toxic Air Contaminants.

   - Proposed commercial and industrial land uses that have the potential to emit TACs or host TAC-generating activity (e.g., loading docks) shall be located away from existing and proposed on-site sensitive receptors such that they do not expose sensitive receptors to TAC emissions that exceed an incremental increase of 10 in 1 million for the cancer risk and/or a noncarcinogenic Hazard Index of 1.0.

- The multi-family residences planned across from the off-site corporation yard near the southwest corner of the SPA shall be set back as far as possible from the boundary of the corporation yard and/or relocated to another area.
- Where necessary to reduce exposure of sensitive receptors to an incremental increase of 10 in 1 million for the cancer risk and/or a noncarcinogenic Hazard Index of 1.0, proposed commercial and industrial land uses that would host diesel trucks shall incorporate idle reduction strategies that reduce the main propulsion engine idling time through alternative technologies such as, IdleAire, electrification of truck parking, and alternative energy sources for TRUs, to allow diesel engines to be completely turned off.
- Signs shall be posted in at all loading docks and truck loading areas which indicate that diesel-powered delivery trucks must be shut off when not in use for longer than 3 minutes on the premises in order to reduce idling emissions. This measure is consistent with the ATCM to Limit Diesel-Fueled Commercial Motor Vehicle Idling, which was approved by the California Office of Administrative Law in January 2005.
- Implement the following additional guidelines, which are recommended in ARB's *Land Use Handbook: A Community Health Perspective* (2005) and are considered to be advisory and not regulatory:
    - Sensitive receptors, such as residential units and daycare centers, shall not be located in the same building as dry-cleaning operations that use perchloroethylene. Dry-cleaning operations that use perchloroethylene shall not be located within 300 feet of any sensitive receptor. A setback of 500 feet shall be provided for operations with two or more machines.
    - Large gasoline stations (defined as facilities with a throughput of 3.6 million gallons per year or greater) and sensitive land uses shall not be sited within 300 feet of each other. Small gasoline-dispensing facilities (less than 3.6 million gallons of throughput per year) and sensitive land uses shall not be sited within 50 feet of each other.

7. **Specific Plan EIR Mitigation Measure 3A.2-5: Implement A Site Investigation to Determine the Presence of NOA and, if necessary, Prepare and Implement an Asbestos Dust Control Plan.** A site investigation shall be performed to determine whether and where NOA is present in the soil and rock on the SPA. The site investigation shall include the collection of soil and rock samples by a qualified geologist. If the site investigation determines that NOA is present on the SPA then the project applicant shall prepare an Asbestos Dust Control Plan for approval by SMAQMD as required in Title 17, Section 93105 of the California Code of Regulations, "Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining Operations." The Asbestos Dust Control Plan shall specify measures, such as periodic watering to reduce airborne dust and ceasing construction during high winds. Measures in the Asbestos Dust Control Plan may include but shall not be limited to dust control measures required by Mitigation Measure 3A.2-1a. The project applicant shall submit the plan to the Folsom Community Development Department for review and SMAQMD for review and approval before construction of the first project phase. SMAQMD approval of the plan must be received before any asbestos-containing rock (serpentinite) can be disturbed. Upon approval of the Asbestos Dust Control Plan by SMAQMD, the applicant shall ensure that construction contractors implement the terms of the plan throughout the construction period.

8. **Specific Plan EIR Mitigation Measure 3A.2-6: Implement Measures to Control Exposure of Sensitive Receptors to Operational Odorous Emissions.** The project applicant(s) for any

particular discretionary development application shall implement the following measures:

- The odor-producing potential of land uses shall be considered when the exact type of facility that would occupy areas zoned for commercial, industrial, or mixed-use land uses is determined. Facilities that have the potential to emit objectionable odors shall be located as far away as feasible from existing and proposed sensitive receptors.
- The multi-family residences planned across from the off-site corporation yard near the southwest corner of the SPA shall be set back as far as possible from the boundary of the corporation yard and/or relocated to another area. (This measure is also required by Mitigation Measure 3A.2-4b to limit exposure to TAC emissions.)
- Before the approval of building permits, odor control devices shall be identified to mitigate the exposure of receptors to objectionable odors if a potential odor-producing source is to occupy an area zoned for commercial, industrial, or mixed-use land uses. The identified odor control devices shall be installed before the issuance of certificates of occupancy for the potentially odor-producing use. The odor-producing potential of a source and control devices shall be determined in coordination with SMAQMD and based on the number of complaints associated with existing sources of the same nature.
- The deeds to all properties located within the plan area that are within one mile of an on- or off-site area zoned or used for agricultural use (including livestock grazing) shall be accompanied by a written disclosure from the transferor, in a form approved by the City of Folsom, advising any transferee of the potential adverse odor impacts from surrounding agricultural operations, which disclosure shall direct the transferee to contact the County of Sacramento concerning any such property within the County zoned for agricultural uses within one mile of the subject property being transferred.
- Truck loading docks and delivery areas shall be located as far away as feasible from existing and proposed sensitive receptors.
- Signs shall be posted at all loading docks and truck loading areas which indicate that diesel-powered delivery trucks must be shut off when not in use for longer than 3 minutes on the premises in order to reduce idling emissions. This measure is consistent with the ATCM to Limit Diesel-Fueled Commercial Motor Vehicle Idling, which was approved by California's Office of Administrative Law in January 2005. (This measure is also required by Mitigation Measure 3A.2-4b to limit TAC emissions.)
- Proposed commercial and industrial land uses that have the potential to host diesel trucks shall incorporate idle reduction strategies that reduce the main propulsion engine idling time through alternative technologies such as, IdleAire, electrification of truck parking, and alternative energy sources for TRUs, to allow diesel engines to be completely turned off. (This measure is also required by Mitigation Measure 3A.2-4b to limit TAC emissions.)

FOLSOM PLAN AREA SPECIFIC PLAN EIR/EIS GREENHOUSE GAS EMISSION-RELATED MITIGATION MEASURES

1. **Specific Plan EIR Mitigation Measure 3A.4-1: Implement Additional Measures to Control Construction-Generated GHG Emissions.** To further reduce construction-generated GHG emissions, the project applicant(s) any particular discretionary development application

shall implement all feasible measures for reducing GHG emissions associated with construction that are recommended by SMAQMD at the time individual portions of the site undergo construction. Such measures may reduce GHG exhaust emissions from the use of on-site equipment, worker commute trips, and truck trips carrying materials and equipment to and from the SPA, as well as GHG emissions embodied in the materials selected for construction (e.g., concrete). Other measures may pertain to the materials used in construction. Prior to releasing each request for bid to contractors for the construction of each discretionary development entitlement, the project applicant(s) shall obtain the most current list of GHG reduction measures that are recommended by SMAQMD and stipulate that these measures be implemented in the respective request for bid as well as the subsequent construction contract with the selected primary contractor. The project applicant(s) for any particular discretionary development application may submit to the City and SMAQMD a report that substantiates why specific measures are considered infeasible for construction of that particular development phase and/or at that point in time. The report, including the substantiation for not implementing particular GHG reduction measures, shall be approved by the City, in consultation with SMAQMD prior to the release of a request for bid by the project applicant(s) for seeking a primary contractor to manage the construction of each development project. By requiring that the list of feasible measures be established prior to the selection of a primary contractor, this measure requires that the ability of a contractor to effectively implement the selected GHG reduction measures be inherent to the selection process.

SMAQMD's recommended measures for reducing construction-related GHG emissions at the time of writing this EIR/EIS are listed below and the project applicant(s) shall, at a minimum, be required to implement the following:

- Improve fuel efficiency from construction equipment:
  - reduce unnecessary idling (modify work practices, install auxiliary power for driver comfort);
  - perform equipment maintenance (inspections, detect failures early, corrections);
  - train equipment operators in proper use of equipment;
- use the proper size of equipment for the job; and
- use equipment with new technologies (repowered engines, electric drive trains).
- Use alternative fuels for electricity generators and welders at construction sites such as propane or solar, or use electrical power.
- Use an ARB-approved low-carbon fuel, such as biodiesel or renewable diesel for construction equipment. (Emissions of oxides of nitrogen [NOX] emissions from the use of low carbon fuel must be reviewed and increases mitigated.) Additional information about low-carbon fuels is available from ARB's Low Carbon Fuel Standard Program.
- Encourage and provide carpools, shuttle vans, transit passes and/or secure bicycle parking for construction worker commutes.
- Reduce electricity use in the construction office by using compact fluorescent bulbs, powering off computers every day, and replacing heating and cooling units with more efficient ones.
- Recycle or salvage non-hazardous construction and demolition debris (goal of at least 75% by weight).
- Use locally sourced or recycled materials for construction materials (goal of at least 20% based on costs for building materials, and based on volume for roadway, parking lot, sidewalk and curb materials).

- Minimize the amount of concrete used for paved surfaces or use a low carbon concrete option.
- Produce concrete on-site if determined to be less emissive than transporting ready mix.
- Use EPA-certified SmartWay trucks for deliveries and equipment transport. Additional information about the SmartWay Transport Partnership Program is available from ARB's Heavy-Duty Vehicle Greenhouse Gas Measure and EPA.
- Develop a plan in consultation with SMAQMD to efficiently use water for adequate dust control. This may consist of the use of non-potable water from a local source.

In addition to SMAQMD-recommended measures, construction activity shall comply with all applicable rules and regulations established by SMAQMD and ARB.

2. **Specific Plan Mitigation Measure 3A.4-2a: Implement Additional Measures to Reduce Operational GHG Emissions.** Each increment of new development within the project site requiring a discretionary approval (e.g., proposed tentative subdivision map, conditional use permit), shall be subject to a project-specific environmental review (which could support an applicable exemption, negative or mitigated negative declaration or project-specific EIR) and will require that GHG emissions from operation of each phase of development, including supporting roadway and infrastructure improvements that are part of the selected action alternative, will be reduced by an amount sufficient to achieve the 2020-based threshold of significance of 4.36 CO2e/SP/year for development that would become operational on or before the year 2020, and the 2030-based threshold of significance of 2.86 CO2e/SP/year for development that would become operational on or before the year 2030.

   The above-stated thresholds of significance may be subject to change if SMAQMD approves its own GHG significance thresholds, in which case, SMAQMD-adopted thresholds will be used. The amount of GHG reduction required to achieve the applicable significance thresholds will furthermore depend on existing and future regulatory measures including those developed under AB 32).

   For each increment of new discretionary development, the City shall submit to the project applicant(s) a list of potentially feasible GHG reduction measures to be considered in the development design. The City's list of potentially feasible GHG reduction measures shall reflect the current state of the regulatory environment, available incentives, and thresholds of significance that may be developed by SMAQMD, which will evolve under the mandate of AB 32 and Executive Order S-3-05. If the project applicant(s) asserts it cannot meet the 2020-based goal, then the report shall also demonstrate why measures not selected are considered infeasible. The City shall review and ensure inclusion of the design features in the proposed project before applicant(s) can receive the City's discretionary approval for the any increment of development. In determining what measures should appropriately be imposed by the City under the circumstances, the City shall consider the following factors:

   - the extent to which rates of GHG emissions generated by motor vehicles traveling to, from, and within the SPA are projected to decrease over time as a result of regulations, policies, and/or plans that have already been adopted or may be adopted in the future by ARB or other public agency pursuant to AB 32, or by EPA;

- the extent to which mobile-source GHG emissions, which at the time of writing this EIR/EIS comprise a substantial portion of the state's GHG inventory, can also be reduced through design measures that result in trip reductions and reductions in trip length;
- the extent to which GHG emissions emitted by the mix of power generation operated by SMUD, the electrical utility that will serve the SPA, are projected to decrease pursuant to the Renewables Portfolio Standard required by SB 1078 and SB 107, as well as any future regulations, policies, and/or plans adopted by the federal and state governments that reduce GHG emissions from power generation;
- the extent to which any stationary sources of GHG emissions that would be operated on a proposed land use (e.g., industrial) are already subject to regulations, policies, and/or plans that reduce GHG emissions, particularly any future regulations that will be developed as part of ARB's implementation of AB 32, or other pertinent regulations on stationary sources that have the indirect effect of reducing GHG emissions;
- the extent to which other mitigation measures imposed on the project to reduce other air pollutant emissions may also reduce GHG emissions;
- the extent to which the feasibility of existing GHG reduction technologies may change in the future, and to which innovation in GHG reduction technologies will continue, effecting cost-benefit analyses that determine economic feasibility; and
- whether the total costs of proposed mitigation for GHG emissions, together with other mitigation measures required for the proposed development, are so great that a reasonably prudent property owner would not proceed with the project in the face of such costs.

In considering how much, and what kind of, mitigation is necessary in light of these factors, the City shall consider the following list of options, though the list is not intended to be exhaustive.

Energy Efficiency

- Include clean alternative energy features to promote energy self-sufficiency (e.g., photovoltaic cells, solar thermal electricity systems, small wind turbines).
- Design buildings to meet CEC Tier II requirements (e.g., exceeding the requirements of the Title 24 [as of 2007] by 35%).
- Site buildings to take advantage of shade and prevailing winds and design landscaping and sun screens to reduce energy use.
- Install efficient lighting in all buildings (including residential). Also install lighting control systems, where practical. Use daylight as an integral part of lighting systems in all buildings.
- Install light-colored "cool" pavements, and strategically located shade trees along all bicycle and pedestrian routes.

Water Conservation and Efficiency

- With the exception of ornamental shade trees, use water-efficient landscapes with native, drought-resistant species in all public area and commercial landscaping. Use water-efficient turf in parks and other turf-dependant spaces.
- Install the infrastructure to use reclaimed water for landscape irrigation and/or washing cars.

- Install water-efficient irrigation systems and devices, such as soil moisture-based irrigation controls.
- Design buildings and lots to be water-efficient. Only install water-efficient fixtures and appliances.
- Restrict watering methods (e.g., prohibit systems that apply water to non-vegetated surfaces) and control runoff. Prohibit businesses from using pressure washers for cleaning driveways, parking lots, sidewalks, and street surfaces. These restrictions should be included in the Covenants, Conditions, and Restrictions of the community.
- Provide education about water conservation and available programs and incentives.
- To reduce stormwater runoff, which typically bogs down wastewater treatment systems and increases their energy consumption, construct driveways to single-family detached residences and parking lots and driveways of multifamily residential uses with pervious surfaces. Possible designs include Hollywood drives (two concrete strips with vegetation or aggregate in between) and/or the use of porous concrete, porous asphalt, turf blocks, or pervious pavers.

Solid Waste Measures

- Reuse and recycle construction and demolition waste (including, but not limited to, soil, vegetation, concrete, lumber, metal, and cardboard).
- Provide interior and exterior storage areas for recyclables and green waste at all buildings.
- Provide adequate recycling containers in public areas, including parks, school grounds, golf courses, and pedestrian zones in areas of mixed-use development.
- Provide education and publicity about reducing waste and available recycling services.

Transportation and Motor Vehicles

- Promote ride-sharing programs and employment centers (e.g., by designating a certain percentage of parking spaces for ride-sharing vehicles, designating adequate passenger loading and unloading zones and waiting areas for ride-share vehicles, and providing a Web site or message board for coordinating ride-sharing).
- Provide the necessary facilities and infrastructure in all land use types to encourage the use of low- or zero-emission vehicles (e.g., electric vehicle charging facilities and conveniently located alternative fueling stations).
- At industrial and commercial land uses, all forklifts, "yard trucks," or vehicles that are predominately used on-site at non-residential land uses shall be electric-powered or powered by biofuels (such as biodiesel [B100]) that are produced from waste products, or shall use other technologies that do not rely on direct fossil fuel consumption.

3. **Mitigation Measure 3A.4-2b: Participate in and Implement an Urban and Community Forestry Program and/or Off-Site Tree Program to Off-Set Loss of On-Site Trees.** The trees on the project site contain sequestered carbon and would continue to provide future carbon sequestration during their growing life. For all harvestable trees that are subject to removal, the project applicant(s) for any particular discretionary development application shall participate in and provide necessary funding for urban and community forestry program (such as the UrbanWood program managed by the Urban Forest

Ecosystems Institute) to ensure that wood with an equivalent carbon sequestration value to that of all harvestable removed trees is harvested for an end-use that would retain its carbon sequestration (e.g., furniture building, cabinet making). For all non-harvestable trees that are subject to removal, the project applicant(s) shall develop and fund an off-site tree program that includes a level of tree planting that, at a minimum, increases carbon sequestration by an amount equivalent to what would have been sequestered by the blue oak woodland during its lifetime. This program shall be funded by the project applicant(s) of each development phase and reviewed for comment by an independent Certified Arborist unaffiliated with the project applicant(s) and shall be coordinated with the requirements of Mitigation Measure 3.3-5, as stated in Section 3A.3, "Biological Resources - Land." Final approval of the program shall be provided by the City. Components of the program may include, but not be limited to, providing urban tree canopy in the City of Folsom, or reforestation in suitable areas outside the City. Reforestation in natural habitat areas outside the City of Folsom would simultaneously mitigate the loss of oak woodland habitat while planting trees within the urban forest canopy would not. The California Urban Forestry Greenhouse Gas Reporting Protocol shall be used to assess this mitigation program. All unused vegetation and tree material shall be mulched for use in landscaping on the project site, shipped to the nearest composting facility, or shipped to a landfill that is equipped with a methane collection system, or combusted in a biomass power plant. Tree and vegetative material should not be burned on- or off-site unless used as fuel in a biomass power plant.

APPENDIX B – FOLSOM PLAN AREA SPECIFIC PLAN AIR QUALITY MITIGATION PLAN

Folsom Plan Area Specific Plan

Operational Air Quality Mitigation Plan

2nd Draft

Torrence Planning
8 September 2009

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1.0 INTRODUCTION

1.1 PLAN PURPOSE

The primary impetus to prepare an Air Quality Mitigation Plan for the Folsom Plan Area Specific Plan (FPASP) is LAFCO Resolution 1195 dated 6 June 2001 adopting Findings of Fact and a Statement of Overriding Considerations for the City of Folsom Sphere of Influence Amendment (4-97) Among the mitigation measures included in the Statement of Overriding Considerations is Mitigation Measure 4.5-2 that requires "*Prior to submission of any application for annexation of the SOI area or any portion thereof, the City of Folsom will prepare an Air Quality Plan for the SOI area incorporating policies and other measures at least as stringent as those in Sacramento County General Plan policies AQ-2 through AQ-31. For the AQA-15 equivalent measure, the Plan shall include an Indirect Source Review and Mitigation Program that reduces emissions by 35 percent forms the potential emissions that could occur without a review and mitigation program".* The Sacramento Metropolitan Air Quality Management District (SMAQMD) CEQA Guidelines dated July 2004 form the basis of the FPASP Air Quality Mitigation Plan. The 35% reduction in operational emissions required by LAFCO Resolution 1195, and the Draft Environmental Impact Report (DEIR) for the FPASP will satisfy the "all feasible measures" mitigation requirement under CEQA for operational impacts

Secondarily, the preparation of an Air Quality Mitigation Plan will provide guidance for the implementation of the Specific Plan Land Use and Resource Management and Sustainability objective and policies including improved mobility, a reduction in vehicle miles traveled, and improved air quality as required by AB 32 and SB 375. The Air Quality Mitigation Plan will also demonstrate consistency with the Policies, Goals and Objectives of the SACOG Blueprint Principals.

1.2 PROJECT LOCATION & SETTING

The Plan Area consists of approximately 3,510 acres of gently rolling grassland terrain and oak woodlands bounded on the north by Highway 50, White Rock Road to the south, Prairie City Road to the west and the Sacramento/El Dorado County line to the east. Prior to annexation to the City of Folsom, the Plan Area was property was used primarily for cattle grazing. Immediately north of the Plan Area is an existing balanced community of homes, businesses and shopping centers. The unincorporated community of El Dorado Hills is located adjacent to the eastern boundary of the Plan Area and to the south, the Plan Area is bordered by open grassy rangeland. Immediately to the west of the Plan Area is the Aerojet General Corporation facility (See Figure 1.1)

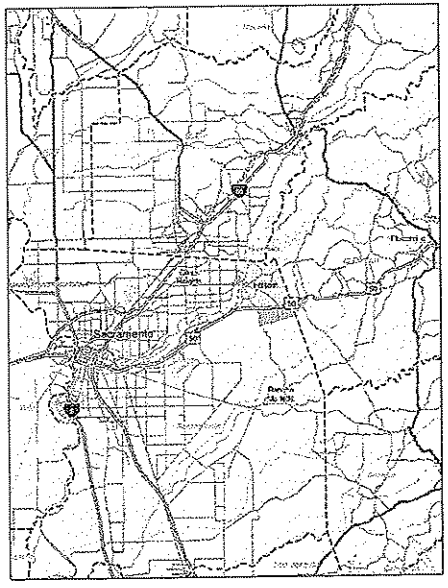

Figure 1.1

1.3 PROJECT HISTORY

City of Folsom Sphere of Influence (SOI)

The Folsom Plan Area Specific Plan is a comprehensively planned expansion of the City of Folsom and is the culmination of a planning process that started in 2001 when the Sacramento Local Agency Formation Commission (LAFCO) approved including the Plan Area property in the City of Folsom's Sphere of Influence (SOI). As part of that process, a Memorandum of Understanding (MOU) between the City of Folsom and Sacramento County and several LAFCO Resolutions were approved. Among the conditions agreed to in these documents was the requirement to complete an "Air Quality Plan" for the SOI property prior to the submittal of an application to LAFCO by the City of Folsom to annex any or all of the SOI property.

Measure W and the Folsom City Charter

In November 2004, Measure W was approved by the City of Folsom voters; that approval requires a number of conditions be met, including completion and certification of an environmental impact report (EIR), prior to the approval by LAFCO of any annexation of SOI property to the City of Folsom. The City Charter was subsequently amended to include the voter approved provisions of Measure W.

The Folsom Plan Area Specific Plan (FPASP)

The FPASP is a City of Folsom approved planning document that sets forth the objectives, policies and standards for development within the Plan Area. The FPASP calls for a comprehensively planned community based on the principals of "Smart Growth" and "Transit Oriented Development". Consistent with these principals, the FPASP encompasses a mix of residential, commercial, employment and public uses complemented by recreation amenities including a significant system of parks and open space, all within close proximity to one another and served and interconnected by a proposed transit system "complete streets", bicycle paths and pedestrian trails.

The FPASP proposes the construction of 10,210 residential housing units, approximately 5 million square feet of commercial retail and office use including a regional shopping center, a town center, public facilities including schools, a municipal center as well as system of local, neighborhood and community parks and open spaces (see Figure 4.1)

Located within the Plan Area is a proposed roadway network that provides north-south connectivity into the City of Folsom as well as parallel capacity for Highway 50. The Plan Area also includes an interconnected system of sidewalks, trails and pathways. This network of sidewalks and trails, coupled with varied mix of land uses throughout the Plan Area, aid in the formation of a walkable community.

A major transportation feature of the FPASP, and a significant air quality mitigation feature, is the proposed transit corridor that links the town and neighborhood centers, the regional commercial center, and proposed higher density residential and mixed-use area. The corridor is proposed to run in the Easton Valley Parkway right-of-way from Prairie City Road to the collector street west of-Placerville Road, then jog-south to Street 'B' , then continue east to the Sacramento Placerville Transportation Corridor (SPTC), then run southeast in a right-of-way shared with the SPTC, to the southern edge of the Plan Area.

SECTION 4
LAND USE DIAGRAM

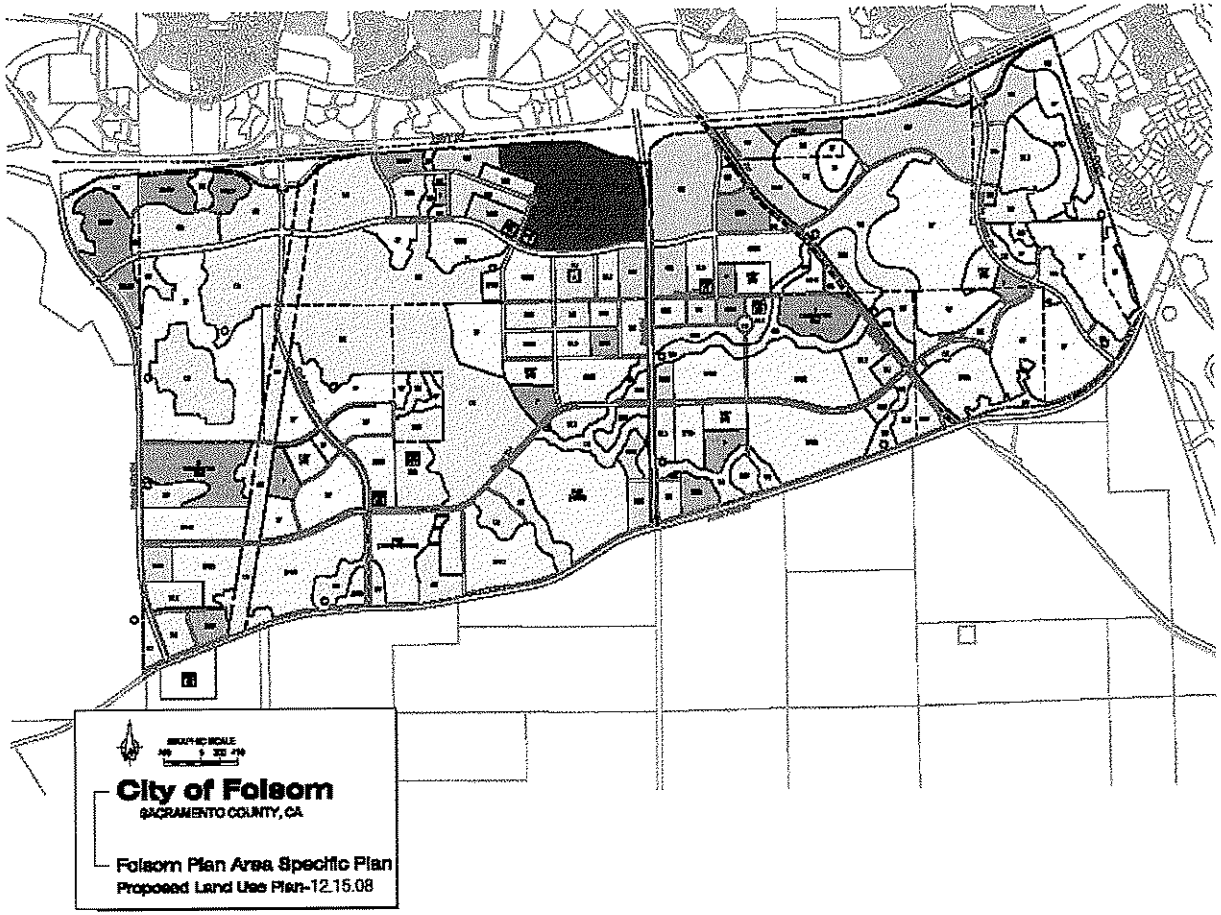

Figure 4.1 Land Use Diagram

An additional transit corridor, not included in the FPASP but directly adjacent to its southern boundary, is the proposed Capital SouthEast Connector (White Rock Road), a multi-modal transportation corridor proposed by the Elk Grove Rancho Cordova – El Dorado Connector Authority to ease Highway 50 congestion and to provide a direct link between the communities of El Dorado Hills, Folsom, Rancho Cordova and Elk Grove.

1.4 PLAN ORGANIZATION

The remainder of this report is organized into five sections: Section 2 describes the proposed scaling methodology, Section 3 is a summary of mitigation measures, Section 4 is a detailed description of the mitigation measures and Section 5 includes report references.

2.0 SCALING METHODOLOGY

The FPASP is a comprehensively planned new community with multiple land uses. The new "Smart Growth" development patterns proposed for the Plan Area insure that the majority of the proposed air quality mitigation measures will apply to the entire Plan Area; however, some measures are limited to a particular Plan Area land use and will only be given credit for mitigating the emissions associated with trip generations for that particular land use (scaling). The FPASP Air Quality Mitigation Plan proposes to use a net site area approach for calculating the scale factor of mitigation measures. Mitigation measures that apply to only one or two land uses are scaled based on the percentage of net site area designated for the land use. To determine the net site area of the FPASP, the area of undeveloped open space is subtracted from the total Plan Area of 3,510.4 acres as shown in the following calculation.

Total FPASP Site Area:	3,510.4 acres
Undeveloped Open Space	-1,053.1 acres
Net Site Area	2,457.3 acres

Individual Plan Area land uses are expressed as a percentage of the net site area. Land use percentages are converted to land use scaling factors as shown in Table 2.1 below:

Table 2.1 Land Use Scaling

Land Use Description [1]	Area (Ac)	Area (Ac)	% of Net Site Area	% of Net Site Area	Scaling Factors	Project Scaling Factors
Single Family Residential (R1)	557.80		22.7%		0.227	
Single Family High Density Residential (R2)	532.50		21.7%		0.217	
Multi-Family Low Density Residential (R3)	266.70		10.9%		0.109	
Multi-Family Medium Density Residential (R4)	67.00		2.7%		0.027	
Multi-Family High Density Residential (R5)	49.90		2.0%		0.020	
Subtotal Residential		1,473.9		60.0%		0.600
Commercial		451.7		18.5%		0.185
Mixed Use		59.1		2.4%		0.024
Schools		121.7		4.9%		0.049
Parks		179.3		7.2%		0.072
Major Circulation		171.6		7.0%		0.070
Totals		2,457.3		100.0%		1.000

[1] From Table 4.1, Folsom Plan Area Specific Plan

3.0 SUMMARY OF MITIGATION MEASURES

The following mitigation measures have been developed by the SMAQMD and are divided into categories based upon the proposed applicable land uses in the Folsom Plan Area Specific Plan. The categories are listed in the Applicable Land Use Column as C for Commercial, R for Residential and M for Mixed Use. Each mitigation measure is used to quantify the approximate emission reduction associated with a particular mitigation measure. The possible points associated with a particular mitigation measure are associated with the percentage of reduction in the project's anticipated operational emissions.

Table 3.1 Summary of SMAQMD Air Quality Mitigation Measures used in the Folsom Plan Area Specific Plan

SMAQMD Measure No.	Title	Applicable Land Use	Description	Mitigation Points Based on Percentage of Net Site Area Scaling Method			
				Possible	Scale	Achieved	Comments
Bicycle/Pedestrian/Transit Mitigation Measures							
1	Bike parking	C & M	*As applicable*, non-residential projects provide *sufficient* short-term and/*or* long-term bicycle parking facilities to meet peak season maximum demand.	0.625	0.209	**0.131**	Applied to Commercial and commercial components of Mixed Use. See Appendix A of the FPASP for bicycle parking requirements.
3	Bicycle parking at multi-unit residential	R *& M*	Long-term bicycle parking is provided at apartment complexes or condominiums without garages.	0.625	0.180	**0.113**	Measure applied to R3, R4 & R5 residential land uses and residential components of Mixed Use. See Appendix A of the FPASP for detailed bicycle parking requirements.

SMAQMD Measure No.	Title	Applicable Land Use	Description	Mitigation Points Based on Percentage of Net Site Area Scaling Method			
				Possible	Scale	Achieved	Comments
4	Proximity to bike path/bike lanes	R,C & M	Entire project is located within *approximately* ½ mile of an existing Class I or Class II bike lane and project design includes a comparable network that connects the project uses to the existing offsite facility.	0.625	1.000	**0.625**	Applied to entire project. See FPASP Figure 7.29 that depicts all Class I bike paths and Class II bike lanes.
5	Pedestrian network	R,C & M	The project provides a pedestrian access network that internally links all uses and connects to all existing or planned external streets and pedestrian facilities contiguous with the project site. *The possible points here are too low. To place greater emphasis on walking as a means to reduce GHG, 4.0 additional possible mitigation points are provided in Measure 99A: Walkable Community*	1.000	1.000	**1.000**	Applied to entire project. See FPASP Figure 7.29 that depicts all Class I bike paths and all paved and unpaved Plan Area trails.
6	Pedestrian barriers minimized	R,C & M	Site design and building placement minimize barriers to pedestrian access and interconnectivity. Physical barriers such as walls, berms, landscaping, and slopes between residential and non-residential uses that *unnecessarily* impede bicycle or pedestrian circulation are *minimized*	1.000	1.000	**1.000**	Applied to entire project. See FPASP Figure 7.29 that depicts all paved and unpaved trails and sidewalks in the Plan Area. This figure also indicates the locations of pedestrian access barriers that are needed for public safety.

SMAQMD Measure No.	Title	Applicable Land Use	Description	Mitigation Points Based on Percentage of Net Site Area Scaling Method			
				Possible	Scale	Achieved	Comments
8	Bus shelter for planned transit service	R,C & M	Project provides transit stops with safe and convenient bicycle/pedestrian access. Project provides essential transit stop improvements (i.e., shelters, route information, benches, and lighting) in anticipation of future transit service.	0.250	1.000	**0.250**	Applied to entire project. See Section 7.10.3 and Figure 7.28 of the FPASP and the FPASP Transit Master Plan for details.
9	Traffic calming	R,C & M	Project design includes pedestrian/bicycle safety and traffic calming measures in excess of jurisdiction requirements. Roadways are designed to reduce motor vehicle speeds and encourage pedestrian and bicycle trips by featuring traffic calming features.	0.250-1.000	1.000	**1.000**	Applied to entire project. See FPASP Section 7.5.11 and Policy 7.6.
Parking Measures							
11	Minimum parking	R,C,M	Provide minimum amount of parking required. Special review of parking required.	0.100-6.000	1.000	**6.000**	Applied to entire project. See detailed description of minimum parking in Section 4.0 of this plan.
13	Pedestrian pathway through parking	C & M	Provide a parking lot design that includes clearly marked and shaded pedestrian pathways between transit facilities and building entrances.	0.500	0.209	**0.105**	Applied to C & M only.

SMAQMD Measure No.	Title	Applicable Land Use	Description	Mitigation Points Based on Percentage of Net Site Area Scaling Method			
				Possible	Scale	Achieved	Comments
Site Design Measures							
17	Orientation to planned alternate transit,	R,C,M	Project is oriented toward planned transit, bicycle, or pedestrian corridor. Setback distance is minimized.	0.250	1.000	**0.250**	Applied to entire project.
18	Residential density	R	Project provides high-density residential development.	1.000-12.000	0.071	**0.852**	The Project's core development area provides high density development. Applied to R4, R5 & M only
19	Street grid	R,C,M	*Project has* multiple and direct street routing (grid style).	1.000	0.809	**0.809**	Applied to R2 through R5, C & M
Mixed-Use Measures							
23	Suburban mixed-use design	R,C,M	Have at least three of the following on-site and/or off-site within ¼ mile: Residential Development, Retail Development, Park, Open Space, or Office.	3.000	1.000	**3.000**	Applied to entire project.
Building Component Measures							
25	No wood-burning fireplace	R	Project does not feature *wood-burning* fireplaces or wood burning stoves.	1.000	0.600	**0.600**	Applied to R only. Additional documentation will be needed for final.

SMAQMD Measure No.	Title	Applicable Land Use	Description	Mitigation Points Based on Percentage of Net Site Area Scaling Method			
				Possible	Scale	Achieved	Comments
27	Energy Star roof	R,C,M	Install Energy Star labeled roof materials.	0.500-1.000	1.000	**1.000**	Applied to entire project. Based on Energy Star labeled roof materials only. Additional documentation will be needed for final.
TDM and Miscellaneous Measures							
33	Transportation Management Association membership	R,C,M	Include permanent TMA membership and funding requirement. Funding to be provided by Community Facilities District or County Service Area or other non-revocable funding mechanism.	5.000	1.000	**5.000**	Applied to entire project.
34	Electric lawnmower	R	Provide complimentary electric lawnmowers to each residential buyer. *Alternatively, require City of Folsom and Home Owner Associations to use electric lawnmowers on City and HOA maintained properties. Enforcement of electric lawnmowers shall be ensured by TMA.*	1.000	0.553	**0.553**	Applied to R1, R2 & R3. *May be applied to R4, R5, & M HOA's and City of Folsom owned property.*

SMAQMD Measure No.	Title	Applicable Land Use Type	Description	Mitigation Points Based on Percentage of Net Site Area Scaling Method			
				Possible	Scale	Achieved	Comments
99A	Walkable Community	C, M & R	The project provides additional pedestrian access networks than specified in SMAQD Measure 5.	4.000	1.000	**4.000**	Applied to entire project.
99B	Transit Corridor	C, M & R	Project establishes a transit corridor that will link the town and neighborhood centers, the regional commercial center and the proposed higher density residential and mixed-use areas of the community to a future off-site regional transit system that includes connections to the RT Gold Line light rail system. The Transit Corridor shall serve as the backbone of the Plan's transit system to provide all residents with access to public transit.	20.000	1.000	**20.000**	Applied to entire project. The FPASP requires the corridor.
99C	Transit Corridor Fees	C, M & R	All projects will pay a City of Folsom Light Rail fee that will assist in the construction of future transit corridor facilities including bus stops and turn-outs, shelters, benches and signs.	2.000	1.000	**2.000**	Applied to entire project.
Total Credit						**48.288**	

APPENDIX C – CALEEMOD OUTPUT FILES – CRITERIA AIR POLLUTANTS

White Rock Springs Ranch

Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	395.00	Dwelling Unit	138.90	711,000.00	1055

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.5	**Precipitation Freq (Days)**	58
Climate Zone	6			**Operational Year**	2016
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Development = 395 units on 138.9 acres

Construction Phase - Building construction, paving, and painting assumed to occur simultaneously

Grading - White Rock Springs Ranch = 138.9 acres

Vehicle Trips - Trip generation ratio per Kimley Horn Traffic Engineers Memorandum

Construction Off-road Equipment Mitigation - Accounts for dust reducing and engine efficiency components of Specific Plan mitigation measure 3A.2-1a. Particulate reduction percentages per SCAQMD CEQA Handbook.

Mobile Land Use Mitigation -

Area Mitigation - SCAQMD Rule 442

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	40
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	220.00	1,550.00
tblConstructionPhase	NumDays	3,100.00	1,550.00
tblConstructionPhase	NumDays	220.00	1,550.00
tblConstructionPhase	PhaseEndDate	7/12/2029	8/3/2023

tblConstructionPhase	PhaseEndDate	7/12/2029	8/3/2023
tblConstructionPhase	PhaseStartDate	8/4/2023	8/25/2017
tblConstructionPhase	PhaseStartDate	8/4/2023	8/25/2017
tblGrading	AcresOfGrading	775.00	138.90
tblLandUse	LotAcreage	128.25	138.90
tblProjectCharacteristics	OperationalYear	2014	2016
tblVehicleTrips	ST_TR	10.08	9.31
tblVehicleTrips	SU_TR	8.77	9.31
tblVehicleTrips	WD_TR	9.57	9.31

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					
2016	6.5596	74.8858	50.1026	0.0637	18.2032	3.5854	21.1429	9.9670	3.2985	12.6715	0.0000	6,574.8668	6,574.8668	1.9427	0.0000	6,615.6637
2017	12.1812	69.6564	48.0165	0.0788	6.6494	3.3183	9.9677	3.4019	3.0528	6.4547	0.0000	7,485.0589	7,485.0589	1.9415	0.0000	7,525.8294
2018	11.2760	45.6594	45.7150	0.0788	1.6540	2.6361	4.2901	0.4435	2.4673	2.9108	0.0000	7,349.8890	7,349.8890	1.4307	0.0000	7,379.9332
2019	10.6599	40.6790	44.2956	0.0787	1.6541	2.2725	3.9266	0.4436	2.1271	2.5707	0.0000	7,215.3467	7,215.3467	1.4125	0.0000	7,245.0087
2020	10.2143	37.1334	43.0424	0.0787	1.6541	2.0078	3.6620	0.4436	1.8788	2.3224	0.0000	7,057.9654	7,057.9654	1.3987	0.0000	7,087.3376
2021	9.8225	33.7335	42.1549	0.0787	1.6542	1.7557	3.4099	0.4436	1.6422	2.0858	0.0000	7,036.0523	7,036.0523	1.3866	0.0000	7,065.1714
2022	9.4333	29.8498	41.4493	0.0787	1.6543	1.4862	3.1404	0.4436	1.3907	1.8344	0.0000	7,018.7845	7,018.7845	1.3796	0.0000	7,047.7569
2023	9.1809	27.4323	40.9027	0.0787	1.6544	1.3078	2.9622	0.4437	1.2236	1.6673	0.0000	7,002.5644	7,002.5644	1.3719	0.0000	7,031.3743
Total	**79.3277**	**359.0296**	**355.6790**	**0.6148**	**34.7776**	**18.3698**	**52.5017**	**16.0305**	**17.0811**	**32.5176**	**0.0000**	**56,740.5280**	**56,740.5280**	**12.2642**	**0.0000**	**56,998.0752**

2.1 Overall Construction (Maximum Daily Emission)

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					
2016	1.5930	29.8519	38.9084	0.0637	7.0473	1.3245	8.0093	3.8348	1.3244	4.7968	0.0000	6,574.8668	6,574.8668	1.9427	0.0000	6,615.6637
2017	8.7867	31.0577	50.3194	0.0788	2.6373	1.7553	3.9618	1.3261	1.7507	2.6505	0.0000	7,485.0589	7,485.0589	1.9415	0.0000	7,525.8294
2018	8.5520	30.4660	48.7933	0.0788	1.6540	1.7143	3.3683	0.4435	1.7101	2.1536	0.0000	7,349.8890	7,349.8890	1.4307	0.0000	7,379.9332
2019	8.3819	29.9512	47.8637	0.0787	1.6541	1.6753	3.3293	0.4436	1.6714	2.1149	0.0000	7,215.3467	7,215.3467	1.4125	0.0000	7,245.0087
2020	8.2294	29.3845	46.8950	0.0787	1.6541	1.6404	3.2945	0.4436	1.6369	2.0804	0.0000	7,057.9654	7,057.9654	1.3987	0.0000	7,087.3376
2021	8.1156	28.7897	46.2297	0.0787	1.6542	1.6073	3.2615	0.4436	1.6041	2.0477	0.0000	7,036.0523	7,036.0523	1.3866	0.0000	7,065.1714
2022	8.0437	28.4138	45.7824	0.0787	1.6543	1.5842	3.2385	0.4436	1.5810	2.0246	0.0000	7,018.7845	7,018.7845	1.3796	0.0000	7,047.7569
2023	7.9708	28.0902	45.3328	0.0787	1.6544	1.5627	3.2171	0.4437	1.5597	2.0034	0.0000	7,002.5644	7,002.5644	1.3719	0.0000	7,031.3743
Total	**59.6732**	**236.0050**	**370.1245**	**0.6148**	**19.6097**	**12.8639**	**31.6804**	**7.8226**	**12.8381**	**19.8720**	**0.0000**	**56,740.5280**	**56,740.5280**	**12.2642**	**0.0000**	**56,998.0752**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**24.78**	**34.27**	**-4.06**	**0.00**	**43.61**	**29.97**	**39.66**	**51.20**	**24.84**	**38.89**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.6937	0.3866	33.0421	1.7200e-003		0.1783	0.1783		0.1783	0.1783	0.0000	58.6782	58.6782	0.0598	0.0000	59.9339
Energy	0.3752	3.2065	1.3645	0.0205		0.2593	0.2593		0.2593	0.2593		4,093.4566	4,093.4566	0.0785	0.0751	4,118.3687
Mobile	15.4450	28.6280	153.6660	0.2996	19.9788	0.4091	20.3878	5.3367	0.3759	5.7126		25,886.9508	25,886.9508	1.0677		25,909.3725
Total	**34.5140**	**32.2212**	**188.0726**	**0.3218**	**19.9788**	**0.8466**	**20.8253**	**5.3367**	**0.8134**	**6.1501**	**0.0000**	**30,039.0856**	**30,039.0856**	**1.2060**	**0.0751**	**30,087.6751**

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	18.3834	0.3048	25.5610	1.1700e-003		0.1331	0.1331		0.1331	0.1331	0.0000	42.3996	42.3996	0.0424	0.0000	43.2900
Energy	0.3752	3.2065	1.3645	0.0205		0.2593	0.2593		0.2593	0.2593		4,093.4566	4,093.4566	0.0785	0.0751	4,118.3687
Mobile	15.1130	26.8096	144.5098	0.2772	18.4366	0.3801	18.8166	4.9247	0.3492	5.2740		23,950.3529	23,950.3529	0.9953		23,971.2533
Total	**33.8716**	**30.3209**	**171.4353**	**0.2988**	**18.4366**	**0.7724**	**19.2090**	**4.9247**	**0.7416**	**5.6663**	**0.0000**	**28,086.2091**	**28,086.2091**	**1.1161**	**0.0751**	**28,132.9120**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**1.86**	**5.90**	**8.85**	**7.13**	**7.72**	**8.76**	**7.76**	**7.72**	**8.83**	**7.87**	**0.00**	**6.50**	**6.50**	**7.45**	**0.00**	**6.50**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2016	6/16/2016	5	120	
2	Grading	Grading	6/17/2016	8/24/2017	5	310	
3	Building Construction	Building Construction	8/25/2017	8/3/2023	5	1550	
4	Paving	Paving	8/25/2017	8/3/2023	5	1550	
5	Architectural Coating	Architectural Coating	8/25/2017	8/3/2023	5	1550	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 138.9

Acres of Paving: 0

Residential Indoor: 1,439,775; Residential Outdoor: 479,925; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	142.00	42.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262		4,090.7544
Total	**5.0771**	**54.6323**	**41.1053**	**0.0391**	**18.0663**	**2.9387**	**21.0049**	**9.9307**	**2.7036**	**12.6343**		**4,065.0053**	**4,065.0053**	**1.2262**		**4,090.7544**

3.2 Site Preparation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0721	0.0649	0.8686	1.7500e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		143.8975	143.8975	6.9500e-003		144.0434
Total	**0.0721**	**0.0649**	**0.8686**	**1.7500e-003**	**0.1369**	**1.0100e-003**	**0.1379**	**0.0363**	**9.2000e-004**	**0.0373**		**143.8975**	**143.8975**	**6.9500e-003**		**144.0434**

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					6.9103	0.0000	6.9103	3.7985	0.0000	3.7985			0.0000			0.0000
Off-Road	0.9515	19.4584	23.4003	0.0391		0.9611	0.9611		0.9611	0.9611	0.0000	4,065.0053	4,065.0053	1.2262		4,090.7544
Total	**0.9515**	**19.4584**	**23.4003**	**0.0391**	**6.9103**	**0.9611**	**7.8714**	**3.7985**	**0.9611**	**4.7596**	**0.0000**	**4,065.0053**	**4,065.0053**	**1.2262**		**4,090.7544**

3.2 Site Preparation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0721	0.0649	0.8686	1.7500e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		143.8975	143.8975	6.9500e-003		144.0434
Total	**0.0721**	**0.0649**	**0.8686**	**1.7500e-003**	**0.1369**	**1.0100e-003**	**0.1379**	**0.0363**	**9.2000e-004**	**0.0373**		**143.8975**	**143.8975**	**6.9500e-003**		**144.0434**

3.3 Grading - 2016

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					6.4973	0.0000	6.4973	3.3615	0.0000	3.3615			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350		6,455.6154
Total	**6.4795**	**74.8137**	**49.1374**	**0.0617**	**6.4973**	**3.5842**	**10.0815**	**3.3615**	**3.2975**	**6.6590**		**6,414.9807**	**6,414.9807**	**1.9350**		**6,455.6154**

3.3 Grading - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0802	0.0721	0.9651	1.9500e-003	0.1521	1.1200e-003	0.1533	0.0404	1.0300e-003	0.0414		159.8861	159.8861	7.7200e-003		160.0483
Total	**0.0802**	**0.0721**	**0.9651**	**1.9500e-003**	**0.1521**	**1.1200e-003**	**0.1533**	**0.0404**	**1.0300e-003**	**0.0414**		**159.8861**	**159.8861**	**7.7200e-003**		**160.0483**

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					2.4852	0.0000	2.4852	1.2858	0.0000	1.2858			0.0000			0.0000
Off-Road	1.5128	29.7798	37.9432	0.0617		1.3234	1.3234		1.3234	1.3234	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154
Total	**1.5128**	**29.7798**	**37.9432**	**0.0617**	**2.4852**	**1.3234**	**3.8086**	**1.2858**	**1.3234**	**2.6092**	**0.0000**	**6,414.9807**	**6,414.9807**	**1.9350**		**6,455.6154**

3.3 Grading - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0802	0.0721	0.9651	1.9500e-003	0.1521	1.1200e-003	0.1533	0.0404	1.0300e-003	0.0414		159.8861	159.8861	7.7200e-003		160.0483
Total	**0.0802**	**0.0721**	**0.9651**	**1.9500e-003**	**0.1521**	**1.1200e-003**	**0.1533**	**0.0404**	**1.0300e-003**	**0.0414**		**159.8861**	**159.8861**	**7.7200e-003**		**160.0483**

3.3 Grading - 2017

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					6.4973	0.0000	6.4973	3.3615	0.0000	3.3615			0.0000			0.0000
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518		6,313.3690	6,313.3690	1.9344		6,353.9915
Total	**6.0991**	**69.5920**	**46.8050**	**0.0617**	**6.4973**	**3.3172**	**9.8145**	**3.3615**	**3.0518**	**6.4133**		**6,313.3690**	**6,313.3690**	**1.9344**		**6,353.9915**

3.3 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0645	0.8640	1.9500e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		153.5798	153.5798	7.0500e-003		153.7278
Total	**0.0715**	**0.0645**	**0.8640**	**1.9500e-003**	**0.1521**	**1.0800e-003**	**0.1532**	**0.0404**	**1.0000e-003**	**0.0414**		**153.5798**	**153.5798**	**7.0500e-003**		**153.7278**

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					2.4852	0.0000	2.4852	1.2858	0.0000	1.2858			0.0000			0.0000
Off-Road	1.5128	29.7798	37.9432	0.0617		1.3234	1.3234		1.3234	1.3234	0.0000	6,313.3690	6,313.3690	1.9344		6,353.9915
Total	**1.5128**	**29.7798**	**37.9432**	**0.0617**	**2.4852**	**1.3234**	**3.8086**	**1.2858**	**1.3234**	**2.6092**	**0.0000**	**6,313.3690**	**6,313.3690**	**1.9344**		**6,353.9915**

3.3 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0645	0.8640	1.9500e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		153.5798	153.5798	7.0500e-003		153.7278
Total	**0.0715**	**0.0645**	**0.8640**	**1.9500e-003**	**0.1521**	**1.0800e-003**	**0.1532**	**0.0404**	**1.0000e-003**	**0.0414**		**153.5798**	**153.5798**	**7.0500e-003**		**153.7278**

3.4 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	**3.1024**	**26.4057**	**18.1291**	**0.0268**		**1.7812**	**1.7812**		**1.6730**	**1.6730**		**2,639.8053**	**2,639.8053**	**0.6497**		**2,653.4490**

3.4 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4376	2.9875	5.3001	8.7600e-003	0.2468	0.0466	0.2934	0.0703	0.0428	0.1131		862.1334	862.1334	6.4300e-003		862.2684
Worker	0.5074	0.4576	6.1345	0.0138	1.0802	7.6700e-003	1.0879	0.2865	7.0700e-003	0.2936		1,090.4167	1,090.4167	0.0500		1,091.4673
Total	**0.9450**	**3.4451**	**11.4346**	**0.0226**	**1.3270**	**0.0543**	**1.3812**	**0.3568**	**0.0499**	**0.4067**		**1,952.5501**	**1,952.5501**	**0.0565**		**1,953.7358**

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	1.0662	14.2245	18.2314	0.0268		0.9271	0.9271		0.9271	0.9271	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	**1.0662**	**14.2245**	**18.2314**	**0.0268**		**0.9271**	**0.9271**		**0.9271**	**0.9271**	**0.0000**	**2,639.8053**	**2,639.8053**	**0.6497**		**2,653.4490**

3.4 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4376	2.9875	5.3001	8.7600e-003	0.2468	0.0466	0.2934	0.0703	0.0428	0.1131		862.1334	862.1334	6.4300e-003		862.2684
Worker	0.5074	0.4576	6.1345	0.0138	1.0802	7.6700e-003	1.0879	0.2865	7.0700e-003	0.2936		1,090.4167	1,090.4167	0.0500		1,091.4673
Total	**0.9450**	**3.4451**	**11.4346**	**0.0226**	**1.3270**	**0.0543**	**1.3812**	**0.3568**	**0.0499**	**0.4067**		**1,952.5501**	**1,952.5501**	**0.0565**		**1,953.7358**

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**		**2,609.9390**	**2,609.9390**	**0.6387**		**2,623.3517**

3.4 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3637	2.6930	4.6250	8.7300e-003	0.2467	0.0428	0.2895	0.0702	0.0394	0.1096		846.2211	846.2211	6.2700e-003		846.3527
Worker	0.4552	0.4123	5.5332	0.0138	1.0802	7.5200e-003	1.0877	0.2865	6.9600e-003	0.2935		1,049.2733	1,049.2733	0.0460		1,050.2401
Total	**0.8189**	**3.1052**	**10.1582**	**0.0225**	**1.3269**	**0.0503**	**1.3772**	**0.3568**	**0.0463**	**0.4031**		**1,895.4944**	**1,895.4944**	**0.0523**		**1,896.5928**

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	1.0071	14.1658	18.1778	0.0268		0.9129	0.9129		0.9129	0.9129	0.0000	2,609.9389	2,609.9389	0.6387		2,623.3517
Total	**1.0071**	**14.1658**	**18.1778**	**0.0268**		**0.9129**	**0.9129**		**0.9129**	**0.9129**	**0.0000**	**2,609.9389**	**2,609.9389**	**0.6387**		**2,623.3517**

3.4 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3637	2.6930	4.6250	8.7300e-003	0.2467	0.0428	0.2895	0.0702	0.0394	0.1096		846.2211	846.2211	6.2700e-003		846.3527
Worker	0.4552	0.4123	5.5332	0.0138	1.0802	7.5200e-003	1.0877	0.2865	6.9600e-003	0.2935		1,049.2733	1,049.2733	0.0460		1,050.2401
Total	**0.8189**	**3.1052**	**10.1582**	**0.0225**	**1.3269**	**0.0503**	**1.3772**	**0.3568**	**0.0463**	**0.4031**		**1,895.4944**	**1,895.4944**	**0.0523**		**1,896.5928**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3516	20.9650	17.1204	0.0268		1.2850	1.2850		1.2083	1.2083		2,580.7618	2,580.7618	0.6279		2,593.9479
Total	**2.3516**	**20.9650**	**17.1204**	**0.0268**		**1.2850**	**1.2850**		**1.2083**	**1.2083**		**2,580.7618**	**2,580.7618**	**0.6279**		**2,593.9479**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3302	2.4518	4.3078	8.7200e-003	0.2468	0.0396	0.2864	0.0703	0.0364	0.1067		832.5141	832.5141	6.1000e-003		832.6423
Worker	0.4185	0.3773	5.1128	0.0137	1.0802	7.4200e-003	1.0876	0.2865	6.8800e-003	0.2934		1,006.7797	1,006.7797	0.0428		1,007.6791
Total	**0.7487**	**2.8291**	**9.4206**	**0.0225**	**1.3270**	**0.0470**	**1.3740**	**0.3568**	**0.0433**	**0.4001**		**1,839.2938**	**1,839.2938**	**0.0489**		**1,840.3214**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9505	14.1081	18.1259	0.0268		0.8990	0.8990		0.8990	0.8990	0.0000	2,580.7618	2,580.7618	0.6279		2,593.9479
Total	**0.9505**	**14.1081**	**18.1259**	**0.0268**		**0.8990**	**0.8990**		**0.8990**	**0.8990**	**0.0000**	**2,580.7618**	**2,580.7618**	**0.6279**		**2,593.9479**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3302	2.4518	4.3078	8.7200e-003	0.2468	0.0396	0.2864	0.0703	0.0364	0.1067		832.5141	832.5141	6.1000e-003		832.6423
Worker	0.4185	0.3773	5.1128	0.0137	1.0802	7.4200e-003	1.0876	0.2865	6.8800e-003	0.2934		1,006.7797	1,006.7797	0.0428		1,007.6791
Total	**0.7487**	**2.8291**	**9.4206**	**0.0225**	**1.3270**	**0.0470**	**1.3740**	**0.3568**	**0.0433**	**0.4001**		**1,839.2938**	**1,839.2938**	**0.0489**		**1,840.3214**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465		2,542.4799	2,542.4799	0.6194		2,555.4880
Total	**2.1113**	**19.0839**	**16.8084**	**0.0268**		**1.1128**	**1.1128**		**1.0465**	**1.0465**		**2,542.4799**	**2,542.4799**	**0.6194**		**2,555.4880**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2809	2.1256	3.8427	8.7000e-003	0.2468	0.0354	0.2822	0.0703	0.0325	0.1028		813.5059	813.5059	5.8800e-003		813.6295
Worker	0.3910	0.3496	4.7646	0.0137	1.0802	7.4300e-003	1.0876	0.2865	6.8900e-003	0.2934		966.9620	966.9620	0.0405		967.8120
Total	**0.6719**	**2.4752**	**8.6074**	**0.0224**	**1.3270**	**0.0428**	**1.3698**	**0.3568**	**0.0394**	**0.3962**		**1,780.4679**	**1,780.4679**	**0.0464**		**1,781.4415**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9074	14.0551	18.0858	0.0268		0.8863	0.8863		0.8863	0.8863	0.0000	2,542.4799	2,542.4799	0.6194		2,555.4880
Total	**0.9074**	**14.0551**	**18.0858**	**0.0268**		**0.8863**	**0.8863**		**0.8863**	**0.8863**	**0.0000**	**2,542.4799**	**2,542.4799**	**0.6194**		**2,555.4880**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2809	2.1256	3.8427	8.7000e-003	0.2468	0.0354	0.2822	0.0703	0.0325	0.1028		813.5059	813.5059	5.8800e-003		813.6295
Worker	0.3910	0.3496	4.7646	0.0137	1.0802	7.4300e-003	1.0876	0.2865	6.8900e-003	0.2934		966.9620	966.9620	0.0405		967.8120
Total	**0.6719**	**2.4752**	**8.6074**	**0.0224**	**1.3270**	**0.0428**	**1.3698**	**0.3568**	**0.0394**	**0.3962**		**1,780.4679**	**1,780.4679**	**0.0464**		**1,781.4415**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8931	17.3403	16.5376	0.0268		0.9549	0.9549		0.8979	0.8979		2,542.7817	2,542.7817	0.6126		2,555.6462
Total	**1.8931**	**17.3403**	**16.5376**	**0.0268**		**0.9549**	**0.9549**		**0.8979**	**0.8979**		**2,542.7817**	**2,542.7817**	**0.6126**		**2,555.6462**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2588	1.7801	3.6128	8.6900e-003	0.2469	0.0318	0.2787	0.0703	0.0293	0.0996		813.0541	813.0541	5.8400e-003		813.1768
Worker	0.3688	0.3267	4.4781	0.0137	1.0802	7.4700e-003	1.0877	0.2865	6.9200e-003	0.2935		950.6443	950.6443	0.0385		951.4536
Total	**0.6275**	**2.1068**	**8.0909**	**0.0224**	**1.3271**	**0.0393**	**1.3664**	**0.3568**	**0.0362**	**0.3931**		**1,763.6984**	**1,763.6984**	**0.0444**		**1,764.6303**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8680	13.9927	18.0376	0.0268		0.8735	0.8735		0.8735	0.8735	0.0000	2,542.7817	2,542.7817	0.6126		2,555.6462
Total	**0.8680**	**13.9927**	**18.0376**	**0.0268**		**0.8735**	**0.8735**		**0.8735**	**0.8735**	**0.0000**	**2,542.7817**	**2,542.7817**	**0.6126**		**2,555.6462**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2588	1.7801	3.6128	8.6900e-003	0.2469	0.0318	0.2787	0.0703	0.0293	0.0996		813.0541	813.0541	5.8400e-003		813.1768
Worker	0.3688	0.3267	4.4781	0.0137	1.0802	7.4700e-003	1.0877	0.2865	6.9200e-003	0.2935		950.6443	950.6443	0.0385		951.4536
Total	**0.6275**	**2.1068**	**8.0909**	**0.0224**	**1.3271**	**0.0393**	**1.3664**	**0.3568**	**0.0362**	**0.3931**		**1,763.6984**	**1,763.6984**	**0.0444**		**1,764.6303**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6992	15.5364	16.3276	0.0268		0.8057	0.8057		0.7581	0.7581		2,543.7497	2,543.7497	0.6085		2,556.5286
Total	**1.6992**	**15.5364**	**16.3276**	**0.0268**		**0.8057**	**0.8057**		**0.7581**	**0.7581**		**2,543.7497**	**2,543.7497**	**0.6085**		**2,556.5286**

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2527	1.5940	3.5210	8.7000e-003	0.2470	0.0313	0.2783	0.0703	0.0288	0.0991		813.3806	813.3806	5.9300e-003		813.5051
Worker	0.3491	0.3071	4.2259	0.0137	1.0802	7.5100e-003	1.0877	0.2865	6.9700e-003	0.2935		936.0635	936.0635	0.0369		936.8381
Total	**0.6019**	**1.9011**	**7.7469**	**0.0224**	**1.3272**	**0.0388**	**1.3660**	**0.3569**	**0.0357**	**0.3926**		**1,749.4440**	**1,749.4440**	**0.0428**		**1,750.3432**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8421	13.9467	18.0146	0.0268		0.8632	0.8632		0.8632	0.8632	0.0000	2,543.7497	2,543.7497	0.6085		2,556.5286
Total	**0.8421**	**13.9467**	**18.0146**	**0.0268**		**0.8632**	**0.8632**		**0.8632**	**0.8632**	**0.0000**	**2,543.7497**	**2,543.7497**	**0.6085**		**2,556.5286**

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2527	1.5940	3.5210	8.7000e-003	0.2470	0.0313	0.2783	0.0703	0.0288	0.0991		813.3806	813.3806	5.9300e-003		813.5051
Worker	0.3491	0.3071	4.2259	0.0137	1.0802	7.5100e-003	1.0877	0.2865	6.9700e-003	0.2935		936.0635	936.0635	0.0369		936.8381
Total	**0.6019**	**1.9011**	**7.7469**	**0.0224**	**1.3272**	**0.0388**	**1.3660**	**0.3569**	**0.0357**	**0.3926**		**1,749.4440**	**1,749.4440**	**0.0428**		**1,750.3432**

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5661	14.3126	16.2093	0.0268		0.6967	0.6967		0.6557	0.6557		2,544.6262	2,544.6262	0.6044		2,557.3191
Total	**1.5661**	**14.3126**	**16.2093**	**0.0268**		**0.6967**	**0.6967**		**0.6557**	**0.6557**		**2,544.6262**	**2,544.6262**	**0.6044**		**2,557.3191**

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2378	1.4403	3.3788	8.6900e-003	0.2471	0.0294	0.2765	0.0704	0.0270	0.0974		813.2577	813.2577	5.6300e-003		813.3759
Worker	0.3316	0.2903	4.0056	0.0137	1.0802	7.5600e-003	1.0878	0.2865	7.0200e-003	0.2936		923.0910	923.0910	0.0355		923.8361
Total	**0.5694**	**1.7305**	**7.3844**	**0.0224**	**1.3273**	**0.0370**	**1.3642**	**0.3569**	**0.0341**	**0.3910**		**1,736.3487**	**1,736.3487**	**0.0411**		**1,737.2120**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8198	13.9044	17.9967	0.0268		0.8545	0.8545		0.8545	0.8545	0.0000	2,544.6262	2,544.6262	0.6044		2,557.3191
Total	**0.8198**	**13.9044**	**17.9967**	**0.0268**		**0.8545**	**0.8545**		**0.8545**	**0.8545**	**0.0000**	**2,544.6262**	**2,544.6262**	**0.6044**		**2,557.3191**

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2378	1.4403	3.3788	8.6900e-003	0.2471	0.0294	0.2765	0.0704	0.0270	0.0974		813.2577	813.2577	5.6300e-003		813.3759
Worker	0.3316	0.2903	4.0056	0.0137	1.0802	7.5600e-003	1.0878	0.2865	7.0200e-003	0.2936		923.0910	923.0910	0.0355		923.8361
Total	**0.5694**	**1.7305**	**7.3844**	**0.0224**	**1.3273**	**0.0370**	**1.3642**	**0.3569**	**0.0341**	**0.3910**		**1,736.3487**	**1,736.3487**	**0.0411**		**1,737.2120**

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.9074**	**20.2964**	**14.7270**	**0.0223**		**1.1384**	**1.1384**		**1.0473**	**1.0473**		**2,281.0588**	**2,281.0588**	**0.6989**		**2,295.7360**

3.5 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0536	0.0483	0.6480	1.4600e-003	0.1141	8.1000e-004	0.1149	0.0303	7.5000e-004	0.0310		115.1849	115.1849	5.2800e-003		115.2959
Total	**0.0536**	**0.0483**	**0.6480**	**1.4600e-003**	**0.1141**	**8.1000e-004**	**0.1149**	**0.0303**	**7.5000e-004**	**0.0310**		**115.1849**	**115.1849**	**5.2800e-003**		**115.2959**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,281.0588**	**2,281.0588**	**0.6989**		**2,295.7360**

3.5 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0536	0.0483	0.6480	1.4600e-003	0.1141	8.1000e-004	0.1149	0.0303	7.5000e-004	0.0310		115.1849	115.1849	5.2800e-003		115.2959
Total	**0.0536**	**0.0483**	**0.6480**	**1.4600e-003**	**0.1141**	**8.1000e-004**	**0.1149**	**0.0303**	**7.5000e-004**	**0.0310**		**115.1849**	**115.1849**	**5.2800e-003**		**115.2959**

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990		2,259.9481
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6114**	**17.1628**	**14.4944**	**0.0223**		**0.9386**	**0.9386**		**0.8635**	**0.8635**		**2,245.2695**	**2,245.2695**	**0.6990**		**2,259.9481**

3.5 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0481	0.0436	0.5845	1.4600e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		110.8387	110.8387	4.8600e-003		110.9409
Total	**0.0481**	**0.0436**	**0.5845**	**1.4600e-003**	**0.1141**	**7.9000e-004**	**0.1149**	**0.0303**	**7.3000e-004**	**0.0310**		**110.8387**	**110.8387**	**4.8600e-003**		**110.9409**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,245.2695	2,245.2695	0.6990		2,259.9481
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,245.2695**	**2,245.2695**	**0.6990**		**2,259.9481**

3.5 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0481	0.0436	0.5845	1.4600e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		110.8387	110.8387	4.8600e-003		110.9409
Total	**0.0481**	**0.0436**	**0.5845**	**1.4600e-003**	**0.1141**	**7.9000e-004**	**0.1149**	**0.0303**	**7.3000e-004**	**0.0310**		**110.8387**	**110.8387**	**4.8600e-003**		**110.9409**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4259	14.9353	14.3652	0.0223		0.8094	0.8094		0.7447	0.7447		2,208.9731	2,208.9731	0.6989		2,223.6499
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4259**	**14.9353**	**14.3652**	**0.0223**		**0.8094**	**0.8094**		**0.7447**	**0.7447**		**2,208.9731**	**2,208.9731**	**0.6989**		**2,223.6499**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0442	0.0399	0.5401	1.4500e-003	0.1141	7.8000e-004	0.1149	0.0303	7.3000e-004	0.0310		106.3500	106.3500	4.5200e-003		106.4450
Total	**0.0442**	**0.0399**	**0.5401**	**1.4500e-003**	**0.1141**	**7.8000e-004**	**0.1149**	**0.0303**	**7.3000e-004**	**0.0310**		**106.3500**	**106.3500**	**4.5200e-003**		**106.4450**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,208.9731	2,208.9731	0.6989		2,223.6499
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,208.9731**	**2,208.9731**	**0.6989**		**2,223.6499**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0442	0.0399	0.5401	1.4500e-003	0.1141	7.8000e-004	0.1149	0.0303	7.3000e-004	0.0310		106.3500	106.3500	4.5200e-003		106.4450
Total	**0.0442**	**0.0399**	**0.5401**	**1.4500e-003**	**0.1141**	**7.8000e-004**	**0.1149**	**0.0303**	**7.3000e-004**	**0.0310**		**106.3500**	**106.3500**	**4.5200e-003**		**106.4450**

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3301	13.7845	14.3523	0.0223		0.7390	0.7390		0.6799	0.6799		2,160.7571	2,160.7571	0.6988		2,175.4326
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3301**	**13.7845**	**14.3523**	**0.0223**		**0.7390**	**0.7390**		**0.6799**	**0.6799**		**2,160.7571**	**2,160.7571**	**0.6988**		**2,175.4326**

3.5 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0413	0.0369	0.5033	1.4500e-003	0.1141	7.8000e-004	0.1149	0.0303	7.3000e-004	0.0310		102.1439	102.1439	4.2800e-003		102.2337
Total	**0.0413**	**0.0369**	**0.5033**	**1.4500e-003**	**0.1141**	**7.8000e-004**	**0.1149**	**0.0303**	**7.3000e-004**	**0.0310**		**102.1439**	**102.1439**	**4.2800e-003**		**102.2337**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,160.7571	2,160.7571	0.6988		2,175.4326
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,160.7571**	**2,160.7571**	**0.6988**		**2,175.4326**

3.5 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0413	0.0369	0.5033	1.4500e-003	0.1141	7.8000e-004	0.1149	0.0303	7.3000e-004	0.0310		102.1439	102.1439	4.2800e-003		102.2337
Total	**0.0413**	**0.0369**	**0.5033**	**1.4500e-003**	**0.1141**	**7.8000e-004**	**0.1149**	**0.0303**	**7.3000e-004**	**0.0310**		**102.1439**	**102.1439**	**4.2800e-003**		**102.2337**

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2308	12.6607	14.3528	0.0223		0.6652	0.6652		0.6120	0.6120		2,160.2530	2,160.2530	0.6987		2,174.9250
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2308**	**12.6607**	**14.3528**	**0.0223**		**0.6652**	**0.6652**		**0.6120**	**0.6120**		**2,160.2530**	**2,160.2530**	**0.6987**		**2,174.9250**

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0390	0.0345	0.4730	1.4500e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		100.4202	100.4202	4.0700e-003		100.5057
Total	**0.0390**	**0.0345**	**0.4730**	**1.4500e-003**	**0.1141**	**7.9000e-004**	**0.1149**	**0.0303**	**7.3000e-004**	**0.0310**		**100.4202**	**100.4202**	**4.0700e-003**		**100.5057**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,160.2530	2,160.2530	0.6987		2,174.9250
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,160.2530**	**2,160.2530**	**0.6987**		**2,174.9250**

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0390	0.0345	0.4730	1.4500e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		100.4202	100.4202	4.0700e-003		100.5057
Total	**0.0390**	**0.0345**	**0.4730**	**1.4500e-003**	**0.1141**	**7.9000e-004**	**0.1149**	**0.0303**	**7.3000e-004**	**0.0310**		**100.4202**	**100.4202**	**4.0700e-003**		**100.5057**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0815	10.9108	14.2815	0.0223		0.5577	0.5577		0.5131	0.5131		2,160.6869	2,160.6869	0.6988		2,175.3619
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0815**	**10.9108**	**14.2815**	**0.0223**		**0.5577**	**0.5577**		**0.5131**	**0.5131**		**2,160.6869**	**2,160.6869**	**0.6988**		**2,175.3619**

3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0369	0.0324	0.4464	1.4500e-003	0.1141	7.9000e-004	0.1149	0.0303	7.4000e-004	0.0310		98.8799	98.8799	3.9000e-003		98.9618
Total	**0.0369**	**0.0324**	**0.4464**	**1.4500e-003**	**0.1141**	**7.9000e-004**	**0.1149**	**0.0303**	**7.4000e-004**	**0.0310**		**98.8799**	**98.8799**	**3.9000e-003**		**98.9618**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,160.6869	2,160.6869	0.6988		2,175.3619
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,160.6869**	**2,160.6869**	**0.6988**		**2,175.3619**

3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0369	0.0324	0.4464	1.4500e-003	0.1141	7.9000e-004	0.1149	0.0303	7.4000e-004	0.0310		98.8799	98.8799	3.9000e-003		98.9618
Total	**0.0369**	**0.0324**	**0.4464**	**1.4500e-003**	**0.1141**	**7.9000e-004**	**0.1149**	**0.0303**	**7.4000e-004**	**0.0310**		**98.8799**	**98.8799**	**3.9000e-003**		**98.9618**

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0128	9.9983	14.2850	0.0223		0.5010	0.5010		0.4609	0.4609		2,160.6139	2,160.6139	0.6988		2,175.2884
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0128**	**9.9983**	**14.2850**	**0.0223**		**0.5010**	**0.5010**		**0.4609**	**0.4609**		**2,160.6139**	**2,160.6139**	**0.6988**		**2,175.2884**

3.5 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0350	0.0307	0.4231	1.4500e-003	0.1141	8.0000e-004	0.1149	0.0303	7.4000e-004	0.0310		97.5096	97.5096	3.7500e-003		97.5883
Total	**0.0350**	**0.0307**	**0.4231**	**1.4500e-003**	**0.1141**	**8.0000e-004**	**0.1149**	**0.0303**	**7.4000e-004**	**0.0310**		**97.5096**	**97.5096**	**3.7500e-003**		**97.5883**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,160.6139	2,160.6139	0.6988		2,175.2884
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,160.6139**	**2,160.6139**	**0.6988**		**2,175.2884**

3.5 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0350	0.0307	0.4231	1.4500e-003	0.1141	8.0000e-004	0.1149	0.0303	7.4000e-004	0.0310		97.5096	97.5096	3.7500e-003		97.5883
Total	**0.0350**	**0.0307**	**0.4231**	**1.4500e-003**	**0.1141**	**8.0000e-004**	**0.1149**	**0.0303**	**7.4000e-004**	**0.0310**		**97.5096**	**97.5096**	**3.7500e-003**		**97.5883**

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	**6.0728**	**2.1850**	**1.8681**	**2.9700e-003**		**0.1733**	**0.1733**		**0.1733**	**0.1733**		**281.4481**	**281.4481**	**0.0297**		**282.0721**

3.6 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1001	0.0902	1.2096	2.7200e-003	0.2130	1.5100e-003	0.2145	0.0565	1.3900e-003	0.0579		215.0118	215.0118	9.8600e-003		215.2189
Total	**0.1001**	**0.0902**	**1.2096**	**2.7200e-003**	**0.2130**	**1.5100e-003**	**0.2145**	**0.0565**	**1.3900e-003**	**0.0579**		**215.0118**	**215.0118**	**9.8600e-003**		**215.2189**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721
Total	**6.0728**	**2.1850**	**1.8681**	**2.9700e-003**		**0.1733**	**0.1733**		**0.1733**	**0.1733**	**0.0000**	**281.4481**	**281.4481**	**0.0297**		**282.0721**

3.6 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1001	0.0902	1.2096	2.7200e-003	0.2130	1.5100e-003	0.2145	0.0565	1.3900e-003	0.0579		215.0118	215.0118	9.8600e-003		215.2189
Total	**0.1001**	**0.0902**	**1.2096**	**2.7200e-003**	**0.2130**	**1.5100e-003**	**0.2145**	**0.0565**	**1.3900e-003**	**0.0579**		**215.0118**	**215.0118**	**9.8600e-003**		**215.2189**

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**6.0392**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.0102**

3.6 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0898	0.0813	1.0911	2.7200e-003	0.2130	1.4800e-003	0.2145	0.0565	1.3700e-003	0.0579		206.8990	206.8990	9.0800e-003		207.0896
Total	**0.0898**	**0.0813**	**1.0911**	**2.7200e-003**	**0.2130**	**1.4800e-003**	**0.2145**	**0.0565**	**1.3700e-003**	**0.0579**		**206.8990**	**206.8990**	**9.0800e-003**		**207.0896**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**6.0392**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.0102**

3.6 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0898	0.0813	1.0911	2.7200e-003	0.2130	1.4800e-003	0.2145	0.0565	1.3700e-003	0.0579		206.8990	206.8990	9.0800e-003		207.0896
Total	**0.0898**	**0.0813**	**1.0911**	**2.7200e-003**	**0.2130**	**1.4800e-003**	**0.2145**	**0.0565**	**1.3700e-003**	**0.0579**		**206.8990**	**206.8990**	**9.0800e-003**		**207.0896**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		281.9473
Total	**6.0070**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**281.9473**

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0825	0.0744	1.0082	2.7100e-003	0.2130	1.4600e-003	0.2145	0.0565	1.3600e-003	0.0579		198.5199	198.5199	8.4400e-003		198.6973
Total	**0.0825**	**0.0744**	**1.0082**	**2.7100e-003**	**0.2130**	**1.4600e-003**	**0.2145**	**0.0565**	**1.3600e-003**	**0.0579**		**198.5199**	**198.5199**	**8.4400e-003**		**198.6973**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		281.9473
Total	**6.0070**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**281.9473**

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0825	0.0744	1.0082	2.7100e-003	0.2130	1.4600e-003	0.2145	0.0565	1.3600e-003	0.0579		198.5199	198.5199	8.4400e-003		198.6973
Total	**0.0825**	**0.0744**	**1.0082**	**2.7100e-003**	**0.2130**	**1.4600e-003**	**0.2145**	**0.0565**	**1.3600e-003**	**0.0579**		**198.5199**	**198.5199**	**8.4400e-003**		**198.6973**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9057
Total	**5.9827**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9057**

3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0771	0.0689	0.9395	2.7100e-003	0.2130	1.4600e-003	0.2145	0.0565	1.3600e-003	0.0579		190.6686	190.6686	7.9800e-003		190.8362
Total	**0.0771**	**0.0689**	**0.9395**	**2.7100e-003**	**0.2130**	**1.4600e-003**	**0.2145**	**0.0565**	**1.3600e-003**	**0.0579**		**190.6686**	**190.6686**	**7.9800e-003**		**190.8362**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9057
Total	**5.9827**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9057**

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0771	0.0689	0.9395	2.7100e-003	0.2130	1.4600e-003	0.2145	0.0565	1.3600e-003	0.0579		190.6686	190.6686	7.9800e-003		190.8362
Total	**0.0771**	**0.0689**	**0.9395**	**2.7100e-003**	**0.2130**	**1.4600e-003**	**0.2145**	**0.0565**	**1.3600e-003**	**0.0579**		**190.6686**	**190.6686**	**7.9800e-003**		**190.8362**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.8537
Total	**5.9594**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.8537**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0727	0.0644	0.8830	2.7100e-003	0.2130	1.4700e-003	0.2145	0.0565	1.3700e-003	0.0579		187.4510	187.4510	7.6000e-003		187.6106
Total	**0.0727**	**0.0644**	**0.8830**	**2.7100e-003**	**0.2130**	**1.4700e-003**	**0.2145**	**0.0565**	**1.3700e-003**	**0.0579**		**187.4510**	**187.4510**	**7.6000e-003**		**187.6106**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.8537
Total	**5.9594**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.8537**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0727	0.0644	0.8830	2.7100e-003	0.2130	1.4700e-003	0.2145	0.0565	1.3700e-003	0.0579		187.4510	187.4510	7.6000e-003		187.6106
Total	**0.0727**	**0.0644**	**0.8830**	**2.7100e-003**	**0.2130**	**1.4700e-003**	**0.2145**	**0.0565**	**1.3700e-003**	**0.0579**		**187.4510**	**187.4510**	**7.6000e-003**		**187.6106**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.8329
Total	**5.9451**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.8329**

3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0688	0.0606	0.8333	2.7100e-003	0.2130	1.4800e-003	0.2145	0.0565	1.3700e-003	0.0579		184.5759	184.5759	7.2700e-003		184.7286
Total	**0.0688**	**0.0606**	**0.8333**	**2.7100e-003**	**0.2130**	**1.4800e-003**	**0.2145**	**0.0565**	**1.3700e-003**	**0.0579**		**184.5759**	**184.5759**	**7.2700e-003**		**184.7286**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.8329
Total	**5.9451**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.8329**

3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0688	0.0606	0.8333	2.7100e-003	0.2130	1.4800e-003	0.2145	0.0565	1.3700e-003	0.0579		184.5759	184.5759	7.2700e-003		184.7286
Total	**0.0688**	**0.0606**	**0.8333**	**2.7100e-003**	**0.2130**	**1.4800e-003**	**0.2145**	**0.0565**	**1.3700e-003**	**0.0579**		**184.5759**	**184.5759**	**7.2700e-003**		**184.7286**

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8017
Total	**5.9322**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8017**

3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0654	0.0572	0.7898	2.7100e-003	0.2130	1.4900e-003	0.2145	0.0565	1.3800e-003	0.0579		182.0180	182.0180	7.0000e-003		182.1649
Total	**0.0654**	**0.0572**	**0.7898**	**2.7100e-003**	**0.2130**	**1.4900e-003**	**0.2145**	**0.0565**	**1.3800e-003**	**0.0579**		**182.0180**	**182.0180**	**7.0000e-003**		**182.1649**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8017
Total	**5.9322**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8017**

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0654	0.0572	0.7898	2.7100e-003	0.2130	1.4900e-003	0.2145	0.0565	1.3800e-003	0.0579		182.0180	182.0180	7.0000e-003		182.1649
Total	**0.0654**	**0.0572**	**0.7898**	**2.7100e-003**	**0.2130**	**1.4900e-003**	**0.2145**	**0.0565**	**1.3800e-003**	**0.0579**		**182.0180**	**182.0180**	**7.0000e-003**		**182.1649**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Increase Transit Accessibility

Improve Pedestrian Network

Expand Transit Network

Increase Transit Frequency

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	15.1130	26.8096	144.5098	0.2772	18.4366	0.3801	18.8166	4.9247	0.3492	5.2740		23,950.3529	23,950.3529	0.9953		23,971.2533
Unmitigated	15.4450	28.6280	153.6660	0.2996	19.9788	0.4091	20.3878	5.3367	0.3759	5.7126		25,886.9508	25,886.9508	1.0677		25,909.3725

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	3,677.45	3,677.45	3677.45	9,436,738	8,708,315
Total	3,677.45	3,677.45	3,677.45	9,436,738	8,708,315

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504516	0.068219	0.178179	0.147873	0.044976	0.006346	0.020386	0.015946	0.002304	0.002308	0.006193	0.000574	0.002181

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3752	3.2065	1.3645	0.0205		0.2593	0.2593		0.2593	0.2593		4,093.4566	4,093.4566	0.0785	0.0751	4,118.3687
NaturalGas Unmitigated	0.3752	3.2065	1.3645	0.0205		0.2593	0.2593		0.2593	0.2593		4,093.4566	4,093.4566	0.0785	0.0751	4,118.3687

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	34794.4	0.3752	3.2065	1.3645	0.0205		0.2593	0.2593		0.2593	0.2593		4,093.4566	4,093.4566	0.0785	0.0751	4,118.3687
Total		**0.3752**	**3.2065**	**1.3645**	**0.0205**		**0.2593**	**0.2593**		**0.2593**	**0.2593**		**4,093.4566**	**4,093.4566**	**0.0785**	**0.0751**	**4,118.3687**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	34.7944	0.3752	3.2065	1.3645	0.0205		0.2593	0.2593		0.2593	0.2593		4,093.4566	4,093.4566	0.0785	0.0751	4,118.3687
Total		**0.3752**	**3.2065**	**1.3645**	**0.0205**		**0.2593**	**0.2593**		**0.2593**	**0.2593**		**4,093.4566**	**4,093.4566**	**0.0785**	**0.0751**	**4,118.3687**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	18.3834	0.3048	25.5610	1.1700e-003		0.1331	0.1331		0.1331	0.1331	0.0000	42.3996	42.3996	0.0424	0.0000	43.2900
Unmitigated	18.6937	0.3866	33.0421	1.7200e-003		0.1783	0.1783		0.1783	0.1783	0.0000	58.6782	58.6782	0.0598	0.0000	59.9339

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					
Consumer Products	15.2154					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0406	0.3866	33.0421	1.7200e-003		0.1783	0.1783		0.1783	0.1783		58.6782	58.6782	0.0598		59.9339
Architectural Coating	2.4378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**18.6937**	**0.3866**	**33.0421**	**1.7200e-003**		**0.1783**	**0.1783**		**0.1783**	**0.1783**	**0.0000**	**58.6782**	**58.6782**	**0.0598**	**0.0000**	**59.9339**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Consumer Products	15.2154					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.7303	0.3048	25.5610	1.1700e-003		0.1331	0.1331		0.1331	0.1331		42.3996	42.3996	0.0424		43.2900
Architectural Coating	2.4378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**18.3834**	**0.3048**	**25.5610**	**1.1700e-003**		**0.1331**	**0.1331**		**0.1331**	**0.1331**	**0.0000**	**42.3996**	**42.3996**	**0.0424**	**0.0000**	**43.2900**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

White Rock Springs Ranch

Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	395.00	Dwelling Unit	138.90	711,000.00	1055

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.5	**Precipitation Freq (Days)**	58
Climate Zone	6			**Operational Year**	2016
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Development = 395 units on 138.9 acres

Construction Phase - Building construction, paving, and painting assumed to occur simultaneously

Grading - White Rock Springs Ranch = 138.9 acres

Vehicle Trips - Trip generation ratio per Kimley Horn Traffic Engineers Memorandum

Construction Off-road Equipment Mitigation - Accounts for dust reducing and engine efficiency components of Specific Plan mitigation measure 3A.2-1a. Particulate reduction percentages per SCAQMD CEQA Handbook.

Mobile Land Use Mitigation -

Area Mitigation - SCAQMD Rule 442

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	40
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	220.00	1,550.00
tblConstructionPhase	NumDays	3,100.00	1,550.00
tblConstructionPhase	NumDays	220.00	1,550.00
tblConstructionPhase	PhaseEndDate	7/12/2029	8/3/2023

tblConstructionPhase	PhaseEndDate	7/12/2029	8/3/2023
tblConstructionPhase	PhaseStartDate	8/4/2023	8/25/2017
tblConstructionPhase	PhaseStartDate	8/4/2023	8/25/2017
tblGrading	AcresOfGrading	775.00	138.90
tblLandUse	LotAcreage	128.25	138.90
tblProjectCharacteristics	OperationalYear	2014	2016
tblVehicleTrips	ST_TR	10.08	9.31
tblVehicleTrips	SU_TR	8.77	9.31
tblVehicleTrips	WD_TR	9.57	9.31

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					
2016	6.5494	74.9032	50.0086	0.0634	18.2032	3.5854	21.1429	9.9670	3.2985	12.6715	0.0000	6,555.3588	6,555.3588	1.9427	0.0000	6,596.1557
2017	12.2243	69.6719	49.8934	0.0766	6.6494	3.3183	9.9677	3.4019	3.0528	6.4547	0.0000	7,303.9857	7,303.9857	1.9415	0.0000	7,344.7561
2018	11.2915	45.9777	47.6640	0.0766	1.6540	2.6367	4.2907	0.4435	2.4679	2.9114	0.0000	7,175.3585	7,175.3585	1.4309	0.0000	7,205.4071
2019	10.6662	40.9671	46.2386	0.0765	1.6541	2.2731	3.9272	0.4436	2.1276	2.5712	0.0000	7,047.6986	7,047.6986	1.4127	0.0000	7,077.3652
2020	10.2050	37.3881	45.0410	0.0765	1.6541	2.0083	3.6625	0.4436	1.8793	2.3228	0.0000	6,896.7450	6,896.7450	1.3989	0.0000	6,926.1218
2021	9.8075	33.9570	44.1329	0.0764	1.6542	1.7562	3.4104	0.4436	1.6426	2.0862	0.0000	6,877.3476	6,877.3476	1.3869	0.0000	6,906.4714
2022	9.4171	30.0539	43.3317	0.0765	1.6543	1.4866	3.1409	0.4436	1.3911	1.8348	0.0000	6,862.3082	6,862.3082	1.3799	0.0000	6,891.2856
2023	9.1622	27.6185	42.6416	0.0765	1.6544	1.3081	2.9625	0.4437	1.2239	1.6675	0.0000	6,848.0331	6,848.0331	1.3721	0.0000	6,876.8478
Total	**79.3230**	**360.5373**	**368.9517**	**0.5989**	**34.7776**	**18.3726**	**52.5045**	**16.0305**	**17.0837**	**32.5202**	**0.0000**	**55,566.8353**	**55,566.8353**	**12.2655**	**0.0000**	**55,824.4107**

2.1 Overall Construction (Maximum Daily Emission)

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					
2016	1.5828	29.8692	38.8144	0.0634	7.0473	1.3245	8.0093	3.8348	1.3244	4.7968	0.0000	6,555.3587	6,555.3587	1.9427	0.0000	6,596.1557
2017	8.8298	31.4136	52.1962	0.0766	2.6373	1.7559	3.9618	1.3261	1.7513	2.6505	0.0000	7,303.9857	7,303.9857	1.9415	0.0000	7,344.7561
2018	8.5675	30.7843	50.7423	0.0766	1.6540	1.7149	3.3689	0.4435	1.7106	2.1542	0.0000	7,175.3585	7,175.3585	1.4309	0.0000	7,205.4071
2019	8.3883	30.2392	49.8066	0.0765	1.6541	1.6758	3.3299	0.4436	1.6719	2.1155	0.0000	7,047.6986	7,047.6986	1.4127	0.0000	7,077.3652
2020	8.2201	29.6392	48.8936	0.0765	1.6541	1.6409	3.2950	0.4436	1.6373	2.0809	0.0000	6,896.7450	6,896.7450	1.3989	0.0000	6,926.1218
2021	8.1006	29.0132	48.2076	0.0764	1.6542	1.6078	3.2619	0.4436	1.6045	2.0481	0.0000	6,877.3476	6,877.3476	1.3869	0.0000	6,906.4714
2022	8.0275	28.6179	47.6648	0.0765	1.6543	1.5846	3.2389	0.4436	1.5814	2.0250	0.0000	6,862.3082	6,862.3082	1.3799	0.0000	6,891.2856
2023	7.9521	28.2764	47.0717	0.0765	1.6544	1.5630	3.2174	0.4437	1.5600	2.0036	0.0000	6,848.0331	6,848.0331	1.3721	0.0000	6,876.8478
Total	**59.6685**	**237.8531**	**383.3973**	**0.5989**	**19.6097**	**12.8675**	**31.6832**	**7.8226**	**12.8414**	**19.8746**	**0.0000**	**55,566.8353**	**55,566.8353**	**12.2655**	**0.0000**	**55,824.4107**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**24.78**	**34.03**	**-3.92**	**0.00**	**43.61**	**29.96**	**39.66**	**51.20**	**24.83**	**38.89**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.6937	0.3866	33.0421	1.7200e-003		0.1783	0.1783		0.1783	0.1783	0.0000	58.6782	58.6782	0.0598	0.0000	59.9339
Energy	0.3752	3.2065	1.3645	0.0205		0.2593	0.2593		0.2593	0.2593		4,093.4566	4,093.4566	0.0785	0.0751	4,118.3687
Mobile	14.5401	32.6592	157.8738	0.2702	19.9788	0.4120	20.3907	5.3367	0.3786	5.7152		23,419.5455	23,419.5455	1.0684		23,441.9813
Total	**33.6091**	**36.2523**	**192.2804**	**0.2924**	**19.9788**	**0.8495**	**20.8282**	**5.3367**	**0.8161**	**6.1528**	**0.0000**	**27,571.6803**	**27,571.6803**	**1.2066**	**0.0751**	**27,620.2839**

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	18.3834	0.3048	25.5610	1.1700e-003		0.1331	0.1331		0.1331	0.1331	0.0000	42.3996	42.3996	0.0424	0.0000	43.2900
Energy	0.3752	3.2065	1.3645	0.0205		0.2593	0.2593		0.2593	0.2593		4,093.4566	4,093.4566	0.0785	0.0751	4,118.3687
Mobile	14.2242	30.5645	150.3972	0.2501	18.4366	0.3830	18.8196	4.9247	0.3519	5.2766		21,671.3784	21,671.3784	0.9959		21,692.2929
Total	**32.9829**	**34.0758**	**177.3227**	**0.2717**	**18.4366**	**0.7753**	**19.2119**	**4.9247**	**0.7443**	**5.6690**	**0.0000**	**25,807.2347**	**25,807.2347**	**1.1168**	**0.0751**	**25,853.9516**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**1.86**	**6.00**	**7.78**	**7.07**	**7.72**	**8.73**	**7.76**	**7.72**	**8.80**	**7.86**	**0.00**	**6.40**	**6.40**	**7.45**	**0.00**	**6.40**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2016	6/16/2016	5	120	
2	Grading	Grading	6/17/2016	8/24/2017	5	310	
3	Building Construction	Building Construction	8/25/2017	8/3/2023	5	1550	
4	Paving	Paving	8/25/2017	8/3/2023	5	1550	
5	Architectural Coating	Architectural Coating	8/25/2017	8/3/2023	5	1550	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 138.9

Acres of Paving: 0

Residential Indoor: 1,439,775; Residential Outdoor: 479,925; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	142.00	42.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262		4,090.7544
Total	**5.0771**	**54.6323**	**41.1053**	**0.0391**	**18.0663**	**2.9387**	**21.0049**	**9.9307**	**2.7036**	**12.6343**		**4,065.0053**	**4,065.0053**	**1.2262**		**4,090.7544**

3.2 Site Preparation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0629	0.0805	0.7841	1.5400e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		126.3402	126.3402	6.9500e-003		126.4862
Total	**0.0629**	**0.0805**	**0.7841**	**1.5400e-003**	**0.1369**	**1.0100e-003**	**0.1379**	**0.0363**	**9.2000e-004**	**0.0373**		**126.3402**	**126.3402**	**6.9500e-003**		**126.4862**

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					6.9103	0.0000	6.9103	3.7985	0.0000	3.7985			0.0000			0.0000
Off-Road	0.9515	19.4584	23.4003	0.0391		0.9611	0.9611		0.9611	0.9611	0.0000	4,065.0053	4,065.0053	1.2262		4,090.7544
Total	**0.9515**	**19.4584**	**23.4003**	**0.0391**	**6.9103**	**0.9611**	**7.8714**	**3.7985**	**0.9611**	**4.7596**	**0.0000**	**4,065.0053**	**4,065.0053**	**1.2262**		**4,090.7544**

3.2 Site Preparation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0629	0.0805	0.7841	1.5400e-003	0.1369	1.0100e-003	0.1379	0.0363	9.2000e-004	0.0373		126.3402	126.3402	6.9500e-003		126.4862
Total	**0.0629**	**0.0805**	**0.7841**	**1.5400e-003**	**0.1369**	**1.0100e-003**	**0.1379**	**0.0363**	**9.2000e-004**	**0.0373**		**126.3402**	**126.3402**	**6.9500e-003**		**126.4862**

3.3 Grading - 2016

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					6.4973	0.0000	6.4973	3.3615	0.0000	3.3615			0.0000			0.0000
Off-Road	6.4795	74.8137	49.1374	0.0617		3.5842	3.5842		3.2975	3.2975		6,414.9807	6,414.9807	1.9350		6,455.6154
Total	**6.4795**	**74.8137**	**49.1374**	**0.0617**	**6.4973**	**3.5842**	**10.0815**	**3.3615**	**3.2975**	**6.6590**		**6,414.9807**	**6,414.9807**	**1.9350**		**6,455.6154**

3.3 Grading - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0699	0.0895	0.8712	1.7100e-003	0.1521	1.1200e-003	0.1533	0.0404	1.0300e-003	0.0414		140.3780	140.3780	7.7200e-003		140.5402
Total	**0.0699**	**0.0895**	**0.8712**	**1.7100e-003**	**0.1521**	**1.1200e-003**	**0.1533**	**0.0404**	**1.0300e-003**	**0.0414**		**140.3780**	**140.3780**	**7.7200e-003**		**140.5402**

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					2.4852	0.0000	2.4852	1.2858	0.0000	1.2858			0.0000			0.0000
Off-Road	1.5128	29.7798	37.9432	0.0617		1.3234	1.3234		1.3234	1.3234	0.0000	6,414.9807	6,414.9807	1.9350		6,455.6154
Total	**1.5128**	**29.7798**	**37.9432**	**0.0617**	**2.4852**	**1.3234**	**3.8086**	**1.2858**	**1.3234**	**2.6092**	**0.0000**	**6,414.9807**	**6,414.9807**	**1.9350**		**6,455.6154**

3.3 Grading - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0699	0.0895	0.8712	1.7100e-003	0.1521	1.1200e-003	0.1533	0.0404	1.0300e-003	0.0414		140.3780	140.3780	7.7200e-003		140.5402
Total	**0.0699**	**0.0895**	**0.8712**	**1.7100e-003**	**0.1521**	**1.1200e-003**	**0.1533**	**0.0404**	**1.0300e-003**	**0.0414**		**140.3780**	**140.3780**	**7.7200e-003**		**140.5402**

3.3 Grading - 2017

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					6.4973	0.0000	6.4973	3.3615	0.0000	3.3615			0.0000			0.0000
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518		6,313.3690	6,313.3690	1.9344		6,353.9915
Total	**6.0991**	**69.5920**	**46.8050**	**0.0617**	**6.4973**	**3.3172**	**9.8145**	**3.3615**	**3.0518**	**6.4133**		**6,313.3690**	**6,313.3690**	**1.9344**		**6,353.9915**

3.3 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0617	0.0799	0.7739	1.7100e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		134.8196	134.8196	7.0500e-003		134.9676
Total	**0.0617**	**0.0799**	**0.7739**	**1.7100e-003**	**0.1521**	**1.0800e-003**	**0.1532**	**0.0404**	**1.0000e-003**	**0.0414**		**134.8196**	**134.8196**	**7.0500e-003**		**134.9676**

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					2.4852	0.0000	2.4852	1.2858	0.0000	1.2858			0.0000			0.0000
Off-Road	1.5128	29.7798	37.9432	0.0617		1.3234	1.3234		1.3234	1.3234	0.0000	6,313.3690	6,313.3690	1.9344		6,353.9915
Total	**1.5128**	**29.7798**	**37.9432**	**0.0617**	**2.4852**	**1.3234**	**3.8086**	**1.2858**	**1.3234**	**2.6092**	**0.0000**	**6,313.3690**	**6,313.3690**	**1.9344**		**6,353.9915**

3.3 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0617	0.0799	0.7739	1.7100e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		134.8196	134.8196	7.0500e-003		134.9676
Total	**0.0617**	**0.0799**	**0.7739**	**1.7100e-003**	**0.1521**	**1.0800e-003**	**0.1532**	**0.0404**	**1.0000e-003**	**0.0414**		**134.8196**	**134.8196**	**7.0500e-003**		**134.9676**

3.4 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	**3.1024**	**26.4057**	**18.1291**	**0.0268**		**1.7812**	**1.7812**		**1.6730**	**1.6730**		**2,639.8053**	**2,639.8053**	**0.6497**		**2,653.4490**

3.4 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5706	3.2006	8.0107	8.7300e-003	0.2468	0.0473	0.2941	0.0703	0.0434	0.1137		854.5922	854.5922	6.6400e-003		854.7316
Worker	0.4384	0.5672	5.4945	0.0121	1.0802	7.6700e-003	1.0879	0.2865	7.0700e-003	0.2936		957.2191	957.2191	0.0500		958.2698
Total	**1.0090**	**3.7678**	**13.5053**	**0.0208**	**1.3270**	**0.0550**	**1.3819**	**0.3568**	**0.0505**	**0.4073**		**1,811.8114**	**1,811.8114**	**0.0567**		**1,813.0014**

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	1.0662	14.2245	18.2314	0.0268		0.9271	0.9271		0.9271	0.9271	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	**1.0662**	**14.2245**	**18.2314**	**0.0268**		**0.9271**	**0.9271**		**0.9271**	**0.9271**	**0.0000**	**2,639.8053**	**2,639.8053**	**0.6497**		**2,653.4490**

3.4 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5706	3.2006	8.0107	8.7300e-003	0.2468	0.0473	0.2941	0.0703	0.0434	0.1137		854.5922	854.5922	6.6400e-003		854.7316
Worker	0.4384	0.5672	5.4945	0.0121	1.0802	7.6700e-003	1.0879	0.2865	7.0700e-003	0.2936		957.2191	957.2191	0.0500		958.2698
Total	**1.0090**	**3.7678**	**13.5053**	**0.0208**	**1.3270**	**0.0550**	**1.3819**	**0.3568**	**0.0505**	**0.4073**		**1,811.8114**	**1,811.8114**	**0.0567**		**1,813.0014**

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**		**2,609.9390**	**2,609.9390**	**0.6387**		**2,623.3517**

3.4 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4649	2.8832	7.3781	8.7000e-003	0.2467	0.0435	0.2902	0.0702	0.0399	0.1102		838.7892	838.7892	6.4800e-003		838.9253
Worker	0.3895	0.5105	4.9160	0.0121	1.0802	7.5200e-003	1.0877	0.2865	6.9600e-003	0.2935		921.0137	921.0137	0.0460		921.9805
Total	**0.8543**	**3.3937**	**12.2941**	**0.0208**	**1.3269**	**0.0510**	**1.3779**	**0.3568**	**0.0469**	**0.4037**		**1,759.8030**	**1,759.8030**	**0.0525**		**1,760.9058**

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	1.0071	14.1658	18.1778	0.0268		0.9129	0.9129		0.9129	0.9129	0.0000	2,609.9389	2,609.9389	0.6387		2,623.3517
Total	**1.0071**	**14.1658**	**18.1778**	**0.0268**		**0.9129**	**0.9129**		**0.9129**	**0.9129**	**0.0000**	**2,609.9389**	**2,609.9389**	**0.6387**		**2,623.3517**

3.4 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4649	2.8832	7.3781	8.7000e-003	0.2467	0.0435	0.2902	0.0702	0.0399	0.1102		838.7892	838.7892	6.4800e-003		838.9253
Worker	0.3895	0.5105	4.9160	0.0121	1.0802	7.5200e-003	1.0877	0.2865	6.9600e-003	0.2935		921.0137	921.0137	0.0460		921.9805
Total	**0.8543**	**3.3937**	**12.2941**	**0.0208**	**1.3269**	**0.0510**	**1.3779**	**0.3568**	**0.0469**	**0.4037**		**1,759.8030**	**1,759.8030**	**0.0525**		**1,760.9058**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3516	20.9650	17.1204	0.0268		1.2850	1.2850		1.2083	1.2083		2,580.7618	2,580.7618	0.6279		2,593.9479
Total	**2.3516**	**20.9650**	**17.1204**	**0.0268**		**1.2850**	**1.2850**		**1.2083**	**1.2083**		**2,580.7618**	**2,580.7618**	**0.6279**		**2,593.9479**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4174	2.6231	7.0347	8.6900e-003	0.2468	0.0402	0.2870	0.0703	0.0370	0.1072		825.1922	825.1922	6.3200e-003		825.3249
Worker	0.3564	0.4668	4.5110	0.0121	1.0802	7.4200e-003	1.0876	0.2865	6.8800e-003	0.2934		883.7186	883.7186	0.0428		884.6179
Total	**0.7739**	**3.0900**	**11.5457**	**0.0207**	**1.3270**	**0.0476**	**1.3746**	**0.3568**	**0.0438**	**0.4006**		**1,708.9107**	**1,708.9107**	**0.0492**		**1,709.9428**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9505	14.1081	18.1259	0.0268		0.8990	0.8990		0.8990	0.8990	0.0000	2,580.7618	2,580.7618	0.6279		2,593.9479
Total	**0.9505**	**14.1081**	**18.1259**	**0.0268**		**0.8990**	**0.8990**		**0.8990**	**0.8990**	**0.0000**	**2,580.7618**	**2,580.7618**	**0.6279**		**2,593.9479**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4174	2.6231	7.0347	8.6900e-003	0.2468	0.0402	0.2870	0.0703	0.0370	0.1072		825.1922	825.1922	6.3200e-003		825.3249
Worker	0.3564	0.4668	4.5110	0.0121	1.0802	7.4200e-003	1.0876	0.2865	6.8800e-003	0.2934		883.7186	883.7186	0.0428		884.6179
Total	**0.7739**	**3.0900**	**11.5457**	**0.0207**	**1.3270**	**0.0476**	**1.3746**	**0.3568**	**0.0438**	**0.4006**		**1,708.9107**	**1,708.9107**	**0.0492**		**1,709.9428**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465		2,542.4799	2,542.4799	0.6194		2,555.4880
Total	**2.1113**	**19.0839**	**16.8084**	**0.0268**		**1.1128**	**1.1128**		**1.0465**	**1.0465**		**2,542.4799**	**2,542.4799**	**0.6194**		**2,555.4880**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3479	2.2727	6.6004	8.6700e-003	0.2468	0.0359	0.2827	0.0703	0.0330	0.1033		806.3285	806.3285	6.1000e-003		806.4567
Worker	0.3324	0.4322	4.1820	0.0120	1.0802	7.4300e-003	1.0876	0.2865	6.8900e-003	0.2934		848.7236	848.7236	0.0405		849.5736
Total	**0.6803**	**2.7049**	**10.7824**	**0.0207**	**1.3270**	**0.0433**	**1.3703**	**0.3568**	**0.0399**	**0.3967**		**1,655.0521**	**1,655.0521**	**0.0466**		**1,656.0303**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9074	14.0551	18.0858	0.0268		0.8863	0.8863		0.8863	0.8863	0.0000	2,542.4799	2,542.4799	0.6194		2,555.4880
Total	**0.9074**	**14.0551**	**18.0858**	**0.0268**		**0.8863**	**0.8863**		**0.8863**	**0.8863**	**0.0000**	**2,542.4799**	**2,542.4799**	**0.6194**		**2,555.4880**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3479	2.2727	6.6004	8.6700e-003	0.2468	0.0359	0.2827	0.0703	0.0330	0.1033		806.3285	806.3285	6.1000e-003		806.4567
Worker	0.3324	0.4322	4.1820	0.0120	1.0802	7.4300e-003	1.0876	0.2865	6.8900e-003	0.2934		848.7236	848.7236	0.0405		849.5736
Total	**0.6803**	**2.7049**	**10.7824**	**0.0207**	**1.3270**	**0.0433**	**1.3703**	**0.3568**	**0.0399**	**0.3967**		**1,655.0521**	**1,655.0521**	**0.0466**		**1,656.0303**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8931	17.3403	16.5376	0.0268		0.9549	0.9549		0.8979	0.8979		2,542.7817	2,542.7817	0.6126		2,555.6462
Total	**1.8931**	**17.3403**	**16.5376**	**0.0268**		**0.9549**	**0.9549**		**0.8979**	**0.8979**		**2,542.7817**	**2,542.7817**	**0.6126**		**2,555.6462**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3158	1.9035	6.3274	8.6600e-003	0.2469	0.0323	0.2792	0.0703	0.0297	0.1000		805.8727	805.8727	6.0700e-003		806.0002
Worker	0.3135	0.4036	3.9127	0.0120	1.0802	7.4700e-003	1.0877	0.2865	6.9200e-003	0.2935		834.3398	834.3398	0.0385		835.1491
Total	**0.6292**	**2.3070**	**10.2401**	**0.0207**	**1.3271**	**0.0398**	**1.3668**	**0.3568**	**0.0366**	**0.3935**		**1,640.2126**	**1,640.2126**	**0.0446**		**1,641.1493**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8680	13.9927	18.0376	0.0268		0.8735	0.8735		0.8735	0.8735	0.0000	2,542.7817	2,542.7817	0.6126		2,555.6462
Total	**0.8680**	**13.9927**	**18.0376**	**0.0268**		**0.8735**	**0.8735**		**0.8735**	**0.8735**	**0.0000**	**2,542.7817**	**2,542.7817**	**0.6126**		**2,555.6462**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3158	1.9035	6.3274	8.6600e-003	0.2469	0.0323	0.2792	0.0703	0.0297	0.1000		805.8727	805.8727	6.0700e-003		806.0002
Worker	0.3135	0.4036	3.9127	0.0120	1.0802	7.4700e-003	1.0877	0.2865	6.9200e-003	0.2935		834.3398	834.3398	0.0385		835.1491
Total	**0.6292**	**2.3070**	**10.2401**	**0.0207**	**1.3271**	**0.0398**	**1.3668**	**0.3568**	**0.0366**	**0.3935**		**1,640.2126**	**1,640.2126**	**0.0446**		**1,641.1493**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6992	15.5364	16.3276	0.0268		0.8057	0.8057		0.7581	0.7581		2,543.7497	2,543.7497	0.6085		2,556.5286
Total	**1.6992**	**15.5364**	**16.3276**	**0.0268**		**0.8057**	**0.8057**		**0.7581**	**0.7581**		**2,543.7497**	**2,543.7497**	**0.6085**		**2,556.5286**

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3048	1.7046	6.1206	8.6600e-003	0.2470	0.0317	0.2787	0.0703	0.0292	0.0995		806.1997	806.1997	6.1600e-003		806.3291
Worker	0.2967	0.3790	3.6754	0.0120	1.0802	7.5100e-003	1.0877	0.2865	6.9700e-003	0.2935		821.4692	821.4692	0.0369		822.2438
Total	**0.6015**	**2.0835**	**9.7960**	**0.0207**	**1.3272**	**0.0392**	**1.3664**	**0.3569**	**0.0361**	**0.3930**		**1,627.6688**	**1,627.6688**	**0.0431**		**1,628.5729**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8421	13.9467	18.0146	0.0268		0.8632	0.8632		0.8632	0.8632	0.0000	2,543.7497	2,543.7497	0.6085		2,556.5286
Total	**0.8421**	**13.9467**	**18.0146**	**0.0268**		**0.8632**	**0.8632**		**0.8632**	**0.8632**	**0.0000**	**2,543.7497**	**2,543.7497**	**0.6085**		**2,556.5286**

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3048	1.7046	6.1206	8.6600e-003	0.2470	0.0317	0.2787	0.0703	0.0292	0.0995		806.1997	806.1997	6.1600e-003		806.3291
Worker	0.2967	0.3790	3.6754	0.0120	1.0802	7.5100e-003	1.0877	0.2865	6.9700e-003	0.2935		821.4692	821.4692	0.0369		822.2438
Total	**0.6015**	**2.0835**	**9.7960**	**0.0207**	**1.3272**	**0.0392**	**1.3664**	**0.3569**	**0.0361**	**0.3930**		**1,627.6688**	**1,627.6688**	**0.0431**		**1,628.5729**

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5661	14.3126	16.2093	0.0268		0.6967	0.6967		0.6557	0.6557		2,544.6262	2,544.6262	0.6044		2,557.3191
Total	**1.5661**	**14.3126**	**16.2093**	**0.0268**		**0.6967**	**0.6967**		**0.6557**	**0.6557**		**2,544.6262**	**2,544.6262**	**0.6044**		**2,557.3191**

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2838	1.5384	5.8182	8.6500e-003	0.2471	0.0297	0.2768	0.0704	0.0273	0.0977		806.0611	806.0611	5.8600e-003		806.1842
Worker	0.2819	0.3579	3.4679	0.0120	1.0802	7.5600e-003	1.0878	0.2865	7.0200e-003	0.2936		810.0016	810.0016	0.0355		810.7467
Total	**0.5657**	**1.8963**	**9.2861**	**0.0207**	**1.3273**	**0.0373**	**1.3645**	**0.3569**	**0.0343**	**0.3912**		**1,616.0628**	**1,616.0628**	**0.0413**		**1,616.9309**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8198	13.9044	17.9967	0.0268		0.8545	0.8545		0.8545	0.8545	0.0000	2,544.6262	2,544.6262	0.6044		2,557.3191
Total	**0.8198**	**13.9044**	**17.9967**	**0.0268**		**0.8545**	**0.8545**		**0.8545**	**0.8545**	**0.0000**	**2,544.6262**	**2,544.6262**	**0.6044**		**2,557.3191**

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2838	1.5384	5.8182	8.6500e-003	0.2471	0.0297	0.2768	0.0704	0.0273	0.0977		806.0611	806.0611	5.8600e-003		806.1842
Worker	0.2819	0.3579	3.4679	0.0120	1.0802	7.5600e-003	1.0878	0.2865	7.0200e-003	0.2936		810.0016	810.0016	0.0355		810.7467
Total	**0.5657**	**1.8963**	**9.2861**	**0.0207**	**1.3273**	**0.0373**	**1.3645**	**0.3569**	**0.0343**	**0.3912**		**1,616.0628**	**1,616.0628**	**0.0413**		**1,616.9309**

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.9074**	**20.2964**	**14.7270**	**0.0223**		**1.1384**	**1.1384**		**1.0473**	**1.0473**		**2,281.0588**	**2,281.0588**	**0.6989**		**2,295.7360**

3.5 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0463	0.0599	0.5804	1.2800e-003	0.1141	8.1000e-004	0.1149	0.0303	7.5000e-004	0.0310		101.1147	101.1147	5.2800e-003		101.2257
Total	**0.0463**	**0.0599**	**0.5804**	**1.2800e-003**	**0.1141**	**8.1000e-004**	**0.1149**	**0.0303**	**7.5000e-004**	**0.0310**		**101.1147**	**101.1147**	**5.2800e-003**		**101.2257**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,281.0588	2,281.0588	0.6989		2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,281.0588**	**2,281.0588**	**0.6989**		**2,295.7360**

3.5 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0463	0.0599	0.5804	1.2800e-003	0.1141	8.1000e-004	0.1149	0.0303	7.5000e-004	0.0310		101.1147	101.1147	5.2800e-003		101.2257
Total	**0.0463**	**0.0599**	**0.5804**	**1.2800e-003**	**0.1141**	**8.1000e-004**	**0.1149**	**0.0303**	**7.5000e-004**	**0.0310**		**101.1147**	**101.1147**	**5.2800e-003**		**101.2257**

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990		2,259.9481
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6114**	**17.1628**	**14.4944**	**0.0223**		**0.9386**	**0.9386**		**0.8635**	**0.8635**		**2,245.2695**	**2,245.2695**	**0.6990**		**2,259.9481**

3.5 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0411	0.0539	0.5193	1.2800e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		97.2902	97.2902	4.8600e-003		97.3923
Total	**0.0411**	**0.0539**	**0.5193**	**1.2800e-003**	**0.1141**	**7.9000e-004**	**0.1149**	**0.0303**	**7.3000e-004**	**0.0310**		**97.2902**	**97.2902**	**4.8600e-003**		**97.3923**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,245.2695	2,245.2695	0.6990		2,259.9481
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,245.2695**	**2,245.2695**	**0.6990**		**2,259.9481**

3.5 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0411	0.0539	0.5193	1.2800e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		97.2902	97.2902	4.8600e-003		97.3923
Total	**0.0411**	**0.0539**	**0.5193**	**1.2800e-003**	**0.1141**	**7.9000e-004**	**0.1149**	**0.0303**	**7.3000e-004**	**0.0310**		**97.2902**	**97.2902**	**4.8600e-003**		**97.3923**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4259	14.9353	14.3652	0.0223		0.8094	0.8094		0.7447	0.7447		2,208.9731	2,208.9731	0.6989		2,223.6499
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4259**	**14.9353**	**14.3652**	**0.0223**		**0.8094**	**0.8094**		**0.7447**	**0.7447**		**2,208.9731**	**2,208.9731**	**0.6989**		**2,223.6499**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0377	0.0493	0.4765	1.2700e-003	0.1141	7.8000e-004	0.1149	0.0303	7.3000e-004	0.0310		93.3506	93.3506	4.5200e-003		93.4456
Total	**0.0377**	**0.0493**	**0.4765**	**1.2700e-003**	**0.1141**	**7.8000e-004**	**0.1149**	**0.0303**	**7.3000e-004**	**0.0310**		**93.3506**	**93.3506**	**4.5200e-003**		**93.4456**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,208.9731	2,208.9731	0.6989		2,223.6499
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,208.9731**	**2,208.9731**	**0.6989**		**2,223.6499**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0377	0.0493	0.4765	1.2700e-003	0.1141	7.8000e-004	0.1149	0.0303	7.3000e-004	0.0310		93.3506	93.3506	4.5200e-003		93.4456
Total	**0.0377**	**0.0493**	**0.4765**	**1.2700e-003**	**0.1141**	**7.8000e-004**	**0.1149**	**0.0303**	**7.3000e-004**	**0.0310**		**93.3506**	**93.3506**	**4.5200e-003**		**93.4456**

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3301	13.7845	14.3523	0.0223		0.7390	0.7390		0.6799	0.6799		2,160.7571	2,160.7571	0.6988		2,175.4326
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3301**	**13.7845**	**14.3523**	**0.0223**		**0.7390**	**0.7390**		**0.6799**	**0.6799**		**2,160.7571**	**2,160.7571**	**0.6988**		**2,175.4326**

3.5 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0351	0.0457	0.4418	1.2700e-003	0.1141	7.8000e-004	0.1149	0.0303	7.3000e-004	0.0310		89.6539	89.6539	4.2800e-003		89.7437
Total	**0.0351**	**0.0457**	**0.4418**	**1.2700e-003**	**0.1141**	**7.8000e-004**	**0.1149**	**0.0303**	**7.3000e-004**	**0.0310**		**89.6539**	**89.6539**	**4.2800e-003**		**89.7437**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,160.7571	2,160.7571	0.6988		2,175.4326
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,160.7571**	**2,160.7571**	**0.6988**		**2,175.4326**

3.5 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0351	0.0457	0.4418	1.2700e-003	0.1141	7.8000e-004	0.1149	0.0303	7.3000e-004	0.0310		89.6539	89.6539	4.2800e-003		89.7437
Total	**0.0351**	**0.0457**	**0.4418**	**1.2700e-003**	**0.1141**	**7.8000e-004**	**0.1149**	**0.0303**	**7.3000e-004**	**0.0310**		**89.6539**	**89.6539**	**4.2800e-003**		**89.7437**

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2308	12.6607	14.3528	0.0223		0.6652	0.6652		0.6120	0.6120		2,160.2530	2,160.2530	0.6987		2,174.9250
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2308**	**12.6607**	**14.3528**	**0.0223**		**0.6652**	**0.6652**		**0.6120**	**0.6120**		**2,160.2530**	**2,160.2530**	**0.6987**		**2,174.9250**

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0331	0.0426	0.4133	1.2700e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		88.1345	88.1345	4.0700e-003		88.2200
Total	**0.0331**	**0.0426**	**0.4133**	**1.2700e-003**	**0.1141**	**7.9000e-004**	**0.1149**	**0.0303**	**7.3000e-004**	**0.0310**		**88.1345**	**88.1345**	**4.0700e-003**		**88.2200**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,160.2530	2,160.2530	0.6987		2,174.9250
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,160.2530**	**2,160.2530**	**0.6987**		**2,174.9250**

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0331	0.0426	0.4133	1.2700e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		88.1345	88.1345	4.0700e-003		88.2200
Total	**0.0331**	**0.0426**	**0.4133**	**1.2700e-003**	**0.1141**	**7.9000e-004**	**0.1149**	**0.0303**	**7.3000e-004**	**0.0310**		**88.1345**	**88.1345**	**4.0700e-003**		**88.2200**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0815	10.9108	14.2815	0.0223		0.5577	0.5577		0.5131	0.5131		2,160.6869	2,160.6869	0.6988		2,175.3619
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0815**	**10.9108**	**14.2815**	**0.0223**		**0.5577**	**0.5577**		**0.5131**	**0.5131**		**2,160.6869**	**2,160.6869**	**0.6988**		**2,175.3619**

3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0313	0.0400	0.3883	1.2700e-003	0.1141	7.9000e-004	0.1149	0.0303	7.4000e-004	0.0310		86.7749	86.7749	3.9000e-003		86.8567
Total	**0.0313**	**0.0400**	**0.3883**	**1.2700e-003**	**0.1141**	**7.9000e-004**	**0.1149**	**0.0303**	**7.4000e-004**	**0.0310**		**86.7749**	**86.7749**	**3.9000e-003**		**86.8567**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,160.6869	2,160.6869	0.6988		2,175.3619
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,160.6869**	**2,160.6869**	**0.6988**		**2,175.3619**

3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0313	0.0400	0.3883	1.2700e-003	0.1141	7.9000e-004	0.1149	0.0303	7.4000e-004	0.0310		86.7749	86.7749	3.9000e-003		86.8567
Total	**0.0313**	**0.0400**	**0.3883**	**1.2700e-003**	**0.1141**	**7.9000e-004**	**0.1149**	**0.0303**	**7.4000e-004**	**0.0310**		**86.7749**	**86.7749**	**3.9000e-003**		**86.8567**

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0128	9.9983	14.2850	0.0223		0.5010	0.5010		0.4609	0.4609		2,160.6139	2,160.6139	0.6988		2,175.2884
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0128**	**9.9983**	**14.2850**	**0.0223**		**0.5010**	**0.5010**		**0.4609**	**0.4609**		**2,160.6139**	**2,160.6139**	**0.6988**		**2,175.2884**

3.5 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0298	0.0378	0.3663	1.2700e-003	0.1141	8.0000e-004	0.1149	0.0303	7.4000e-004	0.0310		85.5636	85.5636	3.7500e-003		85.6423
Total	**0.0298**	**0.0378**	**0.3663**	**1.2700e-003**	**0.1141**	**8.0000e-004**	**0.1149**	**0.0303**	**7.4000e-004**	**0.0310**		**85.5636**	**85.5636**	**3.7500e-003**		**85.6423**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982	0.0000	2,160.6139	2,160.6139	0.6988		2,175.2884
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**	**0.0000**	**2,160.6139**	**2,160.6139**	**0.6988**		**2,175.2884**

3.5 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0298	0.0378	0.3663	1.2700e-003	0.1141	8.0000e-004	0.1149	0.0303	7.4000e-004	0.0310		85.5636	85.5636	3.7500e-003		85.6423
Total	**0.0298**	**0.0378**	**0.3663**	**1.2700e-003**	**0.1141**	**8.0000e-004**	**0.1149**	**0.0303**	**7.4000e-004**	**0.0310**		**85.5636**	**85.5636**	**3.7500e-003**		**85.6423**

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	**6.0728**	**2.1850**	**1.8681**	**2.9700e-003**		**0.1733**	**0.1733**		**0.1733**	**0.1733**		**281.4481**	**281.4481**	**0.0297**		**282.0721**

3.6 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0864	0.1119	1.0834	2.3900e-003	0.2130	1.5100e-003	0.2145	0.0565	1.3900e-003	0.0579		188.7474	188.7474	9.8600e-003		188.9546
Total	**0.0864**	**0.1119**	**1.0834**	**2.3900e-003**	**0.2130**	**1.5100e-003**	**0.2145**	**0.0565**	**1.3900e-003**	**0.0579**		**188.7474**	**188.7474**	**9.8600e-003**		**188.9546**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721
Total	**6.0728**	**2.1850**	**1.8681**	**2.9700e-003**		**0.1733**	**0.1733**		**0.1733**	**0.1733**	**0.0000**	**281.4481**	**281.4481**	**0.0297**		**282.0721**

3.6 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0864	0.1119	1.0834	2.3900e-003	0.2130	1.5100e-003	0.2145	0.0565	1.3900e-003	0.0579		188.7474	188.7474	9.8600e-003		188.9546
Total	**0.0864**	**0.1119**	**1.0834**	**2.3900e-003**	**0.2130**	**1.5100e-003**	**0.2145**	**0.0565**	**1.3900e-003**	**0.0579**		**188.7474**	**188.7474**	**9.8600e-003**		**188.9546**

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**6.0392**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.0102**

3.6 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0768	0.1007	0.9694	2.3900e-003	0.2130	1.4800e-003	0.2145	0.0565	1.3700e-003	0.0579		181.6083	181.6083	9.0800e-003		181.7990
Total	**0.0768**	**0.1007**	**0.9694**	**2.3900e-003**	**0.2130**	**1.4800e-003**	**0.2145**	**0.0565**	**1.3700e-003**	**0.0579**		**181.6083**	**181.6083**	**9.0800e-003**		**181.7990**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**6.0392**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.0102**

3.6 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0768	0.1007	0.9694	2.3900e-003	0.2130	1.4800e-003	0.2145	0.0565	1.3700e-003	0.0579		181.6083	181.6083	9.0800e-003		181.7990
Total	**0.0768**	**0.1007**	**0.9694**	**2.3900e-003**	**0.2130**	**1.4800e-003**	**0.2145**	**0.0565**	**1.3700e-003**	**0.0579**		**181.6083**	**181.6083**	**9.0800e-003**		**181.7990**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		281.9473
Total	**6.0070**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**281.9473**

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0703	0.0921	0.8895	2.3800e-003	0.2130	1.4600e-003	0.2145	0.0565	1.3600e-003	0.0579		174.2544	174.2544	8.4400e-003		174.4317
Total	**0.0703**	**0.0921**	**0.8895**	**2.3800e-003**	**0.2130**	**1.4600e-003**	**0.2145**	**0.0565**	**1.3600e-003**	**0.0579**		**174.2544**	**174.2544**	**8.4400e-003**		**174.4317**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		281.9473
Total	**6.0070**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**281.9473**

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0703	0.0921	0.8895	2.3800e-003	0.2130	1.4600e-003	0.2145	0.0565	1.3600e-003	0.0579		174.2544	174.2544	8.4400e-003		174.4317
Total	**0.0703**	**0.0921**	**0.8895**	**2.3800e-003**	**0.2130**	**1.4600e-003**	**0.2145**	**0.0565**	**1.3600e-003**	**0.0579**		**174.2544**	**174.2544**	**8.4400e-003**		**174.4317**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9057
Total	**5.9827**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9057**

3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0655	0.0852	0.8246	2.3700e-003	0.2130	1.4600e-003	0.2145	0.0565	1.3600e-003	0.0579		167.3539	167.3539	7.9800e-003		167.5216
Total	**0.0655**	**0.0852**	**0.8246**	**2.3700e-003**	**0.2130**	**1.4600e-003**	**0.2145**	**0.0565**	**1.3600e-003**	**0.0579**		**167.3539**	**167.3539**	**7.9800e-003**		**167.5216**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9057
Total	**5.9827**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9057**

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0655	0.0852	0.8246	2.3700e-003	0.2130	1.4600e-003	0.2145	0.0565	1.3600e-003	0.0579		167.3539	167.3539	7.9800e-003		167.5216
Total	**0.0655**	**0.0852**	**0.8246**	**2.3700e-003**	**0.2130**	**1.4600e-003**	**0.2145**	**0.0565**	**1.3600e-003**	**0.0579**		**167.3539**	**167.3539**	**7.9800e-003**		**167.5216**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.8537
Total	**5.9594**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.8537**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0618	0.0796	0.7715	2.3700e-003	0.2130	1.4700e-003	0.2145	0.0565	1.3700e-003	0.0579		164.5177	164.5177	7.6000e-003		164.6773
Total	**0.0618**	**0.0796**	**0.7715**	**2.3700e-003**	**0.2130**	**1.4700e-003**	**0.2145**	**0.0565**	**1.3700e-003**	**0.0579**		**164.5177**	**164.5177**	**7.6000e-003**		**164.6773**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.8537
Total	**5.9594**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.8537**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0618	0.0796	0.7715	2.3700e-003	0.2130	1.4700e-003	0.2145	0.0565	1.3700e-003	0.0579		164.5177	164.5177	7.6000e-003		164.6773
Total	**0.0618**	**0.0796**	**0.7715**	**2.3700e-003**	**0.2130**	**1.4700e-003**	**0.2145**	**0.0565**	**1.3700e-003**	**0.0579**		**164.5177**	**164.5177**	**7.6000e-003**		**164.6773**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.8329
Total	**5.9451**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.8329**

3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0585	0.0747	0.7247	2.3700e-003	0.2130	1.4800e-003	0.2145	0.0565	1.3700e-003	0.0579		161.9798	161.9798	7.2700e-003		162.1326
Total	**0.0585**	**0.0747**	**0.7247**	**2.3700e-003**	**0.2130**	**1.4800e-003**	**0.2145**	**0.0565**	**1.3700e-003**	**0.0579**		**161.9798**	**161.9798**	**7.2700e-003**		**162.1326**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.8329
Total	**5.9451**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.8329**

3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0585	0.0747	0.7247	2.3700e-003	0.2130	1.4800e-003	0.2145	0.0565	1.3700e-003	0.0579		161.9798	161.9798	7.2700e-003		162.1326
Total	**0.0585**	**0.0747**	**0.7247**	**2.3700e-003**	**0.2130**	**1.4800e-003**	**0.2145**	**0.0565**	**1.3700e-003**	**0.0579**		**161.9798**	**161.9798**	**7.2700e-003**		**162.1326**

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8017
Total	**5.9322**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8017**

3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0556	0.0706	0.6838	2.3700e-003	0.2130	1.4900e-003	0.2145	0.0565	1.3800e-003	0.0579		159.7186	159.7186	7.0000e-003		159.8656
Total	**0.0556**	**0.0706**	**0.6838**	**2.3700e-003**	**0.2130**	**1.4900e-003**	**0.2145**	**0.0565**	**1.3800e-003**	**0.0579**		**159.7186**	**159.7186**	**7.0000e-003**		**159.8656**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.7405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8017
Total	**5.9322**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8017**

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0556	0.0706	0.6838	2.3700e-003	0.2130	1.4900e-003	0.2145	0.0565	1.3800e-003	0.0579		159.7186	159.7186	7.0000e-003		159.8656
Total	**0.0556**	**0.0706**	**0.6838**	**2.3700e-003**	**0.2130**	**1.4900e-003**	**0.2145**	**0.0565**	**1.3800e-003**	**0.0579**		**159.7186**	**159.7186**	**7.0000e-003**		**159.8656**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Increase Transit Accessibility

Improve Pedestrian Network

Expand Transit Network

Increase Transit Frequency

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	14.2242	30.5645	150.3972	0.2501	18.4366	0.3830	18.8196	4.9247	0.3519	5.2766		21,671.3784	21,671.3784	0.9959		21,692.2929
Unmitigated	14.5401	32.6592	157.8738	0.2702	19.9788	0.4120	20.3907	5.3367	0.3786	5.7152		23,419.5455	23,419.5455	1.0684		23,441.9813

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	3,677.45	3,677.45	3677.45	9,436,738	8,708,315
Total	3,677.45	3,677.45	3,677.45	9,436,738	8,708,315

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504516	0.068219	0.178179	0.147873	0.044976	0.006346	0.020386	0.015946	0.002304	0.002308	0.006193	0.000574	0.002181

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3752	3.2065	1.3645	0.0205		0.2593	0.2593		0.2593	0.2593		4,093.4566	4,093.4566	0.0785	0.0751	4,118.3687
NaturalGas Unmitigated	0.3752	3.2065	1.3645	0.0205		0.2593	0.2593		0.2593	0.2593		4,093.4566	4,093.4566	0.0785	0.0751	4,118.3687

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	34794.4	0.3752	3.2065	1.3645	0.0205		0.2593	0.2593		0.2593	0.2593		4,093.4566	4,093.4566	0.0785	0.0751	4,118.3687
Total		**0.3752**	**3.2065**	**1.3645**	**0.0205**		**0.2593**	**0.2593**		**0.2593**	**0.2593**		**4,093.4566**	**4,093.4566**	**0.0785**	**0.0751**	**4,118.3687**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	34.7944	0.3752	3.2065	1.3645	0.0205		0.2593	0.2593		0.2593	0.2593		4,093.4566	4,093.4566	0.0785	0.0751	4,118.3687
Total		**0.3752**	**3.2065**	**1.3645**	**0.0205**		**0.2593**	**0.2593**		**0.2593**	**0.2593**		**4,093.4566**	**4,093.4566**	**0.0785**	**0.0751**	**4,118.3687**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	18.3834	0.3048	25.5610	1.1700e-003		0.1331	0.1331		0.1331	0.1331	0.0000	42.3996	42.3996	0.0424	0.0000	43.2900
Unmitigated	18.6937	0.3866	33.0421	1.7200e-003		0.1783	0.1783		0.1783	0.1783	0.0000	58.6782	58.6782	0.0598	0.0000	59.9339

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.4378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.2154					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0406	0.3866	33.0421	1.7200e-003		0.1783	0.1783		0.1783	0.1783		58.6782	58.6782	0.0598		59.9339
Total	**18.6937**	**0.3866**	**33.0421**	**1.7200e-003**		**0.1783**	**0.1783**		**0.1783**	**0.1783**	**0.0000**	**58.6782**	**58.6782**	**0.0598**	**0.0000**	**59.9339**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Consumer Products	15.2154					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.7303	0.3048	25.5610	1.1700e-003		0.1331	0.1331		0.1331	0.1331		42.3996	42.3996	0.0424		43.2900
Architectural Coating	2.4378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**18.3834**	**0.3048**	**25.5610**	**1.1700e-003**		**0.1331**	**0.1331**		**0.1331**	**0.1331**	**0.0000**	**42.3996**	**42.3996**	**0.0424**	**0.0000**	**43.2900**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

APPENDIX D – AERMOD OUTPUT FILES – COURSE PARTICULATE MATTER DISPERSION

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.8.9
** Lakes Environmental Software Inc.
** Date: 6/18/2015
** File: C:\Emissions Models\Folsom\White Rock Springs Ranch\AERMOD\White Rock
Springs Ranch\White Rock Springs Ranch.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Emissions Models\Folsom\White Rock Springs Ranch\AERMOD\White Roc
   MODELOPT CONC FLAT
   AVERTIME 24 PERIOD
   POLLUTID PM_10
   FLAGPOLE 1.80
   RUNORNOT RUN
   ERRORFIL "White Rock Springs Ranch.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION FUG1          VOLUME     665730.000  4277879.000          0.0
   LOCATION FUG2          VOLUME     665730.000  4277779.000          0.0
   LOCATION FUG3          VOLUME     665730.000  4277679.000          0.0
   LOCATION FUG4          VOLUME     665730.000  4277500.000          0.0
   LOCATION FUG5          VOLUME     665730.000  4277400.000          0.0
   LOCATION FUG6          VOLUME     665730.000  4277300.000          0.0
   LOCATION FUG7          VOLUME     665582.000  4277879.000          0.0
   LOCATION FUG8          VOLUME     665600.000  4277779.000          0.0
   LOCATION FUG9          VOLUME     665582.000  4277650.000          0.0
   LOCATION FUG10         VOLUME     665582.000  4277510.000          0.0
   LOCATION FUG11         VOLUME     665582.000  4277400.000          0.0
   LOCATION FUG12         VOLUME     665582.000  4277310.000          0.0
   LOCATION FUG13         VOLUME     665465.000  4277879.000          0.0
   LOCATION FUG14         VOLUME     665465.000  4277779.000          0.0
   LOCATION FUG15         VOLUME     665465.000  4277600.000          0.0
   LOCATION FUG16         VOLUME     665465.000  4277480.000          0.0
   LOCATION FUG17         VOLUME     665465.000  4277350.000          0.0
   LOCATION FUG18         VOLUME     665465.000  4277245.000          0.0
   LOCATION FUG19         VOLUME     665345.000  4277879.000          0.0
   LOCATION FUG20         VOLUME     665345.000  4277750.000          0.0
   LOCATION FUG21         VOLUME     665345.000  4277550.000          0.0
   LOCATION FUG22         VOLUME     665345.000  4277450.000          0.0
   LOCATION FUG23         VOLUME     665345.000  4277350.000          0.0
   LOCATION FUG24         VOLUME     665228.000  4277879.000          0.0
   LOCATION FUG25         VOLUME     665228.000  4277750.000          0.0
   LOCATION FUG26         VOLUME     665228.000  4277650.000          0.0
   LOCATION FUG27         VOLUME     665228.000  4277550.000          0.0
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   LOCATION EX1          VOLUME     665730.000  4277879.000          0.0
   LOCATION EX2          VOLUME     665730.000  4277779.000          0.0
   LOCATION EX3          VOLUME     665730.000  4277679.000          0.0
   LOCATION EX4          VOLUME     665730.000  4277500.000          0.0
   LOCATION EX5          VOLUME     665730.000  4277400.000          0.0
   LOCATION EX6          VOLUME     665730.000  4277300.000          0.0
   LOCATION EX7          VOLUME     665582.000  4277879.000          0.0
   LOCATION EX8          VOLUME     665600.000  4277779.000          0.0
   LOCATION EX9          VOLUME     665582.000  4277650.000          0.0
   LOCATION EX10         VOLUME     665582.000  4277510.000          0.0
   LOCATION EX11         VOLUME     665582.000  4277400.000          0.0
   LOCATION EX12         VOLUME     665582.000  4277310.000          0.0
   LOCATION EX13         VOLUME     665465.000  4277879.000          0.0
   LOCATION EX14         VOLUME     665465.000  4277779.000          0.0
   LOCATION EX15         VOLUME     665465.000  4277600.000          0.0
   LOCATION EX16         VOLUME     665465.000  4277480.000          0.0
   LOCATION EX17         VOLUME     665465.000  4277350.000          0.0
   LOCATION EX18         VOLUME     665465.000  4277245.000          0.0
   LOCATION EX19         VOLUME     665345.000  4277879.000          0.0
   LOCATION EX20         VOLUME     665345.000  4277750.000          0.0
   LOCATION EX21         VOLUME     665345.000  4277550.000          0.0
   LOCATION EX22         VOLUME     665345.000  4277450.000          0.0
   LOCATION EX23         VOLUME     665345.000  4277350.000          0.0
   LOCATION EX24         VOLUME     665228.000  4277879.000          0.0
   LOCATION EX25         VOLUME     665228.000  4277879.000          0.0
   LOCATION EX26         VOLUME     665228.000  4277650.000          0.0
   LOCATION EX27         VOLUME     665228.000  4277550.000          0.0
** Source Parameters **
   SRCPARAM FUG1           0.001       0.000      23.256       1.000
   SRCPARAM FUG2           0.001       0.000      23.256       1.000
   SRCPARAM FUG3           0.001       0.000      23.256       1.000
   SRCPARAM FUG4           0.001       0.000      23.256       1.000
   SRCPARAM FUG5           0.001       0.000      23.256       1.000
   SRCPARAM FUG6           0.001       0.000      23.256       1.000
   SRCPARAM FUG7           0.001       0.000      23.256       1.000
   SRCPARAM FUG8           0.001       0.000      23.256       1.000
   SRCPARAM FUG9           0.001       0.000      23.256       1.000
   SRCPARAM FUG10          0.001       0.000      23.256       1.000
   SRCPARAM FUG11          0.001       0.000      23.256       1.000
   SRCPARAM FUG12          0.001       0.000      23.256       1.000
   SRCPARAM FUG13          0.001       0.000      23.256       1.000
   SRCPARAM FUG14          0.001       0.000      23.256       1.000
   SRCPARAM FUG15          0.001       0.000      23.256       1.000
   SRCPARAM FUG16          0.001       0.000      23.256       1.000
   SRCPARAM FUG17          0.001       0.000      23.256       1.000
   SRCPARAM FUG18          0.001       0.000      23.256       1.000
   SRCPARAM FUG19          0.001       0.000      23.256       1.000
   SRCPARAM FUG20          0.001       0.000      23.256       1.000
   SRCPARAM FUG21          0.001       0.000      23.256       1.000
   SRCPARAM FUG22          0.001       0.000      23.256       1.000
   SRCPARAM FUG23          0.001       0.000      23.256       1.000
   SRCPARAM FUG24          0.001       0.000      23.256       1.000
   SRCPARAM FUG25          0.001       0.000      23.256       1.000
   SRCPARAM FUG26          0.001       0.000      23.256       1.000
   SRCPARAM FUG27          0.001       0.000      23.256       1.000
   SRCPARAM EX1          0.00002       5.000      23.256       1.000
   SRCPARAM EX2          0.00002       5.000      23.256       1.000
   SRCPARAM EX3          0.00002       5.000      23.256       1.000
   SRCPARAM EX4          0.00002       5.000      23.256       1.000
   SRCPARAM EX5          0.00002       5.000      23.256       1.000
   SRCPARAM EX6          0.00002       5.000      23.256       1.000
   SRCPARAM EX7          0.00002       5.000      23.256       1.000
   SRCPARAM EX8          0.00002       5.000      23.256       1.000
```

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   SRCPARAM EX9          0.00002     5.000    23.256     1.000
   SRCPARAM EX10         0.00002     5.000    23.256     1.000
   SRCPARAM EX11         0.00002     5.000    23.256     1.000
   SRCPARAM EX12         0.00002     5.000    23.256     1.000
   SRCPARAM EX13         0.00002     5.000    23.256     1.000
   SRCPARAM EX14         0.00002     5.000    23.256     1.000
   SRCPARAM EX15         0.00002     5.000    23.256     1.000
   SRCPARAM EX16         0.00002     5.000    23.256     1.000
   SRCPARAM EX17         0.00002     5.000    23.256     1.000
   SRCPARAM EX18         0.00002     5.000    23.256     1.000
   SRCPARAM EX19         0.00002     5.000    23.256     1.000
   SRCPARAM EX20         0.00002     5.000    23.256     1.000
   SRCPARAM EX21         0.00002     5.000    23.256     1.000
   SRCPARAM EX22         0.00002     5.000    23.256     1.000
   SRCPARAM EX23         0.00002     5.000    23.256     1.000
   SRCPARAM EX24         0.00002     5.000    23.256     1.000
   SRCPARAM EX25         0.00002     5.000    23.256     1.000
   SRCPARAM EX26         0.00002     5.000    23.256     1.000
   SRCPARAM EX27         0.00002     5.000    23.256     1.000
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   GRIDCART UCART1 STA
                    XYINC 662727.16 21 187.33 4276316.61 21 122.24
                    FLAG    1     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    1     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    1     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    1     1.80     1.80     1.80
                    FLAG    2     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    2     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    2     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    2     1.80     1.80     1.80
                    FLAG    3     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    3     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    3     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    3     1.80     1.80     1.80
                    FLAG    4     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    4     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    4     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    4     1.80     1.80     1.80
                    FLAG    5     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    5     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    5     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    5     1.80     1.80     1.80
                    FLAG    6     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    6     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    6     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    6     1.80     1.80     1.80
                    FLAG    7     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    7     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    7     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    7     1.80     1.80     1.80
                    FLAG    8     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    8     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    8     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    8     1.80     1.80     1.80
                    FLAG    9     1.80     1.80     1.80     1.80     1.80     1.80
```

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      FLAG    9     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG    9     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG    9     1.80     1.80     1.80
      FLAG   10     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   10     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   10     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   10     1.80     1.80     1.80
      FLAG   11     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   11     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   11     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   11     1.80     1.80     1.80
      FLAG   12     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   12     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   12     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   12     1.80     1.80     1.80
      FLAG   13     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   13     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   13     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   13     1.80     1.80     1.80
      FLAG   14     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   14     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   14     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   14     1.80     1.80     1.80
      FLAG   15     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   15     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   15     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   15     1.80     1.80     1.80
      FLAG   16     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   16     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   16     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   16     1.80     1.80     1.80
      FLAG   17     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   17     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   17     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   17     1.80     1.80     1.80
      FLAG   18     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   18     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   18     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   18     1.80     1.80     1.80
      FLAG   19     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   19     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   19     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   19     1.80     1.80     1.80
      FLAG   20     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   20     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   20     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   20     1.80     1.80     1.80
      FLAG   21     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   21     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   21     1.80     1.80     1.80     1.80     1.80     1.80
      FLAG   21     1.80     1.80     1.80
   GRIDCART UCART1 END
** DESCRREC "" ""
   DISCCART    666454.43   4277219.37    1.80
   DISCCART    666365.32   4277591.33    1.80
   DISCCART    666357.57   4277874.16    1.80
   DISCCART    666148.35   4278408.85    1.80
   DISCCART    665981.74   4278928.03    1.80
   DISCCART    666028.24   4279094.63    1.80
   DISCCART    665764.77   4279462.71    1.80
   DISCCART    665152.60   4279121.75    1.80
   DISCCART    665071.24   4279598.32    1.80
   DISCCART    664718.66   4279567.32    1.80
```

```
   DISCCART    664486.19   4279404.59    1.80
   DISCCART    663161.11   4279176.00    1.80
   DISCCART    662734.91   4279117.88    1.80
   DISCCART    668077.85   4276587.83    1.80
   DISCCART    667888.00   4277149.63    1.80
   DISCCART    667698.15   4277513.84    1.80
   DISCCART    667326.20   4278765.30    1.80
   DISCCART    667202.21   4279249.61    1.80
   DISCCART    665776.40   4279609.94    1.80
   DISCCART    664005.75   4279609.94    1.80
   DISCCART    662851.15   4279598.32    1.80
   DISCCART    662734.91   4276320.49    1.80
   DISCCART    668682.27   4276324.36    1.80
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE "..\Int 10-14 N1MD.SFC"
   PROFFILE "..\Int 10-14 N1MD.PFL"
   SURFDATA 93225 2010
   UAIRDATA 23230 2010 OAKLAND/WSO_AP
   PROFBASE 0.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "White Rock Springs Ranch.AD\24H1GALL.PLT" 31
   PLOTFILE PERIOD ALL "White Rock Springs Ranch.AD\PE00GALL.PLT" 32
   SUMMFILE "White Rock Springs Ranch.sum"
OU FINISHED

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

♀ *** AERMOD - VERSION  14134 ***   *** C:\Emissions Models\Folsom\White Rock
Springs Ranch\AERMOD\White Roc ***        06/18/15
 *** AERMET - VERSION  14134 ***   ***
                       ***        09:34:09

                                  PAGE   1
 **MODELOPTs:   NonDFAULT CONC      FLAT      FLGPOL

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

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

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
```

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

 **Model Uses RURAL Dispersion Only.

 **Model Allows User-Specified Options:
        1. Stack-tip Downwash.
        2. Model Assumes Receptors on FLAT Terrain.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.

 **Other Options Specified:
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Accepts FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of: PM_10

 **Model Calculates 1 Short Term Average(s) of: 24-HR
     and Calculates PERIOD Averages

 **This Run Includes: 54 Source(s);   1 Source Group(s); and   464
Receptor(s)

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

 **The AERMET Input Meteorological Data Version Date: 14134

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

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

 **Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   0.00 ; Decay
Coef. =   0.000   ; Rot. Angle =   0.0
                  Emission Units = GRAMS/SEC   ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =   3.6 MB of RAM.

 **Detailed Error/Message File: White Rock Springs Ranch.err

 **File for Summary of Results: White Rock Springs Ranch.sum

♀ *** AERMOD - VERSION 14134 ***   *** C:\Emissions Models\Folsom\White Rock
Springs Ranch\AERMOD\White Roc ***   06/18/15
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**MODELOPTs: NonDFAULT CONC FLAT FLGPOL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
FUG1	0	0.10000E-02	665730.0	4277879.0	0.0	0.00	23.26	1.00	NO
FUG2	0	0.10000E-02	665730.0	4277779.0	0.0	0.00	23.26	1.00	NO
FUG3	0	0.10000E-02	665730.0	4277679.0	0.0	0.00	23.26	1.00	NO
FUG4	0	0.10000E-02	665730.0	4277500.0	0.0	0.00	23.26	1.00	NO
FUG5	0	0.10000E-02	665730.0	4277400.0	0.0	0.00	23.26	1.00	NO
FUG6	0	0.10000E-02	665730.0	4277300.0	0.0	0.00	23.26	1.00	NO
FUG7	0	0.10000E-02	665582.0	4277879.0	0.0	0.00	23.26	1.00	NO
FUG8	0	0.10000E-02	665600.0	4277779.0	0.0	0.00	23.26	1.00	NO
FUG9	0	0.10000E-02	665582.0	4277650.0	0.0	0.00	23.26	1.00	NO
FUG10	0	0.10000E-02	665582.0	4277510.0	0.0	0.00	23.26	1.00	NO
FUG11	0	0.10000E-02	665582.0	4277400.0	0.0	0.00	23.26	1.00	NO
FUG12	0	0.10000E-02	665582.0	4277310.0	0.0	0.00	23.26	1.00	NO
FUG13	0	0.10000E-02	665465.0	4277879.0	0.0	0.00	23.26	1.00	NO
FUG14	0	0.10000E-02	665465.0	4277779.0	0.0	0.00	23.26	1.00	NO
FUG15	0	0.10000E-02	665465.0	4277600.0	0.0	0.00	23.26	1.00	NO
FUG16	0	0.10000E-02	665465.0	4277480.0	0.0	0.00	23.26	1.00	NO
FUG17	0	0.10000E-02	665465.0	4277350.0	0.0	0.00	23.26	1.00	NO
FUG18	0	0.10000E-02	665465.0	4277245.0	0.0	0.00	23.26	1.00	NO
FUG19	0	0.10000E-02	665345.0	4277879.0	0.0	0.00	23.26	1.00	NO
FUG20	0	0.10000E-02	665345.0	4277750.0	0.0	0.00	23.26	1.00	NO
FUG21	0	0.10000E-02	665345.0	4277550.0	0.0	0.00	23.26	1.00	NO
FUG22	0	0.10000E-02	665345.0	4277450.0	0.0	0.00	23.26	1.00	NO
FUG23	0	0.10000E-02	665345.0	4277350.0	0.0	0.00	23.26	1.00	NO
FUG24	0	0.10000E-02	665228.0	4277879.0	0.0	0.00	23.26	1.00	NO
FUG25	0	0.10000E-02	665228.0	4277750.0	0.0	0.00	23.26		

1.00 NO
FUG26 0 0.10000E-02 665228.0 4277650.0 0.0 0.00 23.26
1.00 NO
FUG27 0 0.10000E-02 665228.0 4277550.0 0.0 0.00 23.26
1.00 NO
EX1 0 0.20000E-04 665730.0 4277879.0 0.0 5.00 23.26
1.00 NO
EX2 0 0.20000E-04 665730.0 4277779.0 0.0 5.00 23.26
1.00 NO
EX3 0 0.20000E-04 665730.0 4277679.0 0.0 5.00 23.26
1.00 NO
EX4 0 0.20000E-04 665730.0 4277500.0 0.0 5.00 23.26
1.00 NO
EX5 0 0.20000E-04 665730.0 4277400.0 0.0 5.00 23.26
1.00 NO
EX6 0 0.20000E-04 665730.0 4277300.0 0.0 5.00 23.26
1.00 NO
EX7 0 0.20000E-04 665582.0 4277879.0 0.0 5.00 23.26
1.00 NO
EX8 0 0.20000E-04 665600.0 4277779.0 0.0 5.00 23.26
1.00 NO
EX9 0 0.20000E-04 665582.0 4277650.0 0.0 5.00 23.26
1.00 NO
EX10 0 0.20000E-04 665582.0 4277510.0 0.0 5.00 23.26
1.00 NO
EX11 0 0.20000E-04 665582.0 4277400.0 0.0 5.00 23.26
1.00 NO
EX12 0 0.20000E-04 665582.0 4277310.0 0.0 5.00 23.26
1.00 NO
EX13 0 0.20000E-04 665465.0 4277879.0 0.0 5.00 23.26
1.00 NO
♀ *** AERMOD - VERSION 14134 *** *** C:\Emissions Models\Folsom\White Rock Springs Ranch\AERMOD\White Roc *** 06/18/15
*** AERMET - VERSION 14134 *** *** *** 09:34:09

**MODELOPTs: NonDFAULT CONC FLAT FLGPOL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
EX14	0	0.20000E-04	665465.0	4277779.0	0.0	5.00	23.26	1.00	NO	
EX15	0	0.20000E-04	665465.0	4277600.0	0.0	5.00	23.26	1.00	NO	
EX16	0	0.20000E-04	665465.0	4277480.0	0.0	5.00	23.26	1.00	NO	
EX17	0	0.20000E-04	665465.0	4277350.0	0.0	5.00	23.26	1.00	NO	
EX18	0	0.20000E-04	665465.0	4277245.0	0.0	5.00	23.26	1.00	NO	
EX19	0	0.20000E-04	665345.0	4277879.0	0.0	5.00	23.26	1.00	NO	

```
 EX20               0   0.20000E-04  665345.0 4277750.0     0.0      5.00     23.26
1.00      NO
 EX21               0   0.20000E-04  665345.0 4277550.0     0.0      5.00     23.26
1.00      NO
 EX22               0   0.20000E-04  665345.0 4277450.0     0.0      5.00     23.26
1.00      NO
 EX23               0   0.20000E-04  665345.0 4277350.0     0.0      5.00     23.26
1.00      NO
 EX24               0   0.20000E-04  665228.0 4277879.0     0.0      5.00     23.26
1.00      NO
 EX25               0   0.20000E-04  665228.0 4277879.0     0.0      5.00     23.26
1.00      NO
 EX26               0   0.20000E-04  665228.0 4277650.0     0.0      5.00     23.26
1.00      NO
 EX27               0   0.20000E-04  665228.0 4277550.0     0.0      5.00     23.26
1.00      NO
♀ *** AERMOD - VERSION  14134 ***   *** C:\Emissions Models\Folsom\White Rock
Springs Ranch\AERMOD\White Roc ***        06/18/15
 *** AERMET - VERSION  14134 ***   ***
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 **MODELOPTs:   NonDFAULT CONC      FLAT      FLGPOL


                                                  *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                        SOURCE IDs
 -----------                                                        ----------


  ALL        FUG1        , FUG2        , FUG3        , FUG4        , FUG5        ,
FUG6        , FUG7        , FUG8        ,

             FUG9        , FUG10       , FUG11       , FUG12       , FUG13       ,
FUG14       , FUG15       , FUG16       ,

             FUG17       , FUG18       , FUG19       , FUG20       , FUG21       ,
FUG22       , FUG23       , FUG24       ,

             FUG25       , FUG26       , FUG27       , EX1         , EX2         ,
EX3         , EX4         , EX5         ,

             EX6         , EX7         , EX8         , EX9         , EX10        ,
EX11        , EX12        , EX13        ,

             EX14        , EX15        , EX16        , EX17        , EX18        ,
EX19        , EX20        , EX21        ,

             EX22        , EX23        , EX24        , EX25        , EX26        ,
EX27        ,
♀ *** AERMOD - VERSION  14134 ***   *** C:\Emissions Models\Folsom\White Rock
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 **MODELOPTs:   NonDFAULT CONC      FLAT      FLGPOL

                                               *** GRIDDED RECEPTOR NETWORK SUMMARY ***

                                         *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART
***
```

*** X-COORDINATES OF GRID ***
(METERS)

662727.2, 662914.5, 663101.8, 663289.2, 663476.5, 663663.8, 663851.1, 664038.5, 664225.8, 664413.1,
664600.5, 664787.8, 664975.1, 665162.5, 665349.8, 665537.1, 665724.4, 665911.8, 666099.1, 666286.4,
666473.8,

*** Y-COORDINATES OF GRID ***
(METERS)

4276316.6, 4276438.8, 4276561.1, 4276683.3, 4276805.6, 4276927.8, 4277050.0, 4277172.3, 4277294.5, 4277416.8,
4277539.0, 4277661.2, 4277783.5, 4277905.7, 4278028.0, 4278150.2, 4278272.4, 4278394.7, 4278516.9, 4278639.2,
4278761.4,

♀ *** AERMOD - VERSION 14134 *** *** C:\Emissions Models\Folsom\White Rock Springs Ranch\AERMOD\White Roc *** 06/18/15
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**MODELOPTs: NonDFAULT CONC FLAT FLGPOL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 662727.16	662914.49	663101.82	663289.15	663476.48	663663.81	663851.14	664038.47	664225.80
4278761.41	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4278639.17	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4278516.93	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4278394.69	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4278272.45	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4278150.21	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4278027.97	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4277905.73	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4277783.49	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4277661.25	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4277539.01	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4277416.77	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4277294.53	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80

4277172.29	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4277050.05	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4276927.81	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4276805.57	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4276683.33	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4276561.09	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4276438.85	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4276316.61	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			

♀ *** AERMOD - VERSION 14134 *** *** C:\Emissions Models\Folsom\White Rock Springs Ranch\AERMOD\White Roc *** 06/18/15
*** AERMET - VERSION 14134 *** *** 09:34:09

**MODELOPTs: NonDFAULT CONC FLAT FLGPOL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 664413.13	664600.46	664787.79	664975.12	665162.45	665349.78	665537.11	665724.44	665911.77

4278761.41	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4278639.17	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4278516.93	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4278394.69	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4278272.45	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4278150.21	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4278027.97	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4277905.73	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4277783.49	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4277661.25	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4277539.01	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4277416.77	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4277294.53	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4277172.29	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			

4277050.05	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4276927.81	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4276805.57	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4276683.33	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4276561.09	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4276438.85	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			
4276316.61	1.80	1.80	1.80	1.80	1.80	1.80
1.80	1.80	1.80	1.80			

**MODELOPTs: NonDFAULT CONC FLAT FLGPOL

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 666099.10	666286.43	666473.76
4278761.41	1.80	1.80	1.80
4278639.17	1.80	1.80	1.80
4278516.93	1.80	1.80	1.80
4278394.69	1.80	1.80	1.80
4278272.45	1.80	1.80	1.80
4278150.21	1.80	1.80	1.80
4278027.97	1.80	1.80	1.80
4277905.73	1.80	1.80	1.80
4277783.49	1.80	1.80	1.80
4277661.25	1.80	1.80	1.80
4277539.01	1.80	1.80	1.80
4277416.77	1.80	1.80	1.80
4277294.53	1.80	1.80	1.80
4277172.29	1.80	1.80	1.80
4277050.05	1.80	1.80	1.80
4276927.81	1.80	1.80	1.80
4276805.57	1.80	1.80	1.80
4276683.33	1.80	1.80	1.80
4276561.09	1.80	1.80	1.80
4276438.85	1.80	1.80	1.80
4276316.61	1.80	1.80	1.80

**MODELOPTs: NonDFAULT CONC FLAT FLGPOL

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

(666454.4, 4277219.4, 0.0, 0.0, 1.8); (666365.3, 4277591.3, 0.0, 0.0, 1.8);
(666357.6, 4277874.2, 0.0, 0.0, 1.8); (666148.4, 4278408.8, 0.0, 0.0, 1.8);
(665981.7, 4278928.0, 0.0, 0.0, 1.8); (666028.2, 4279094.6, 0.0, 0.0, 1.8);
(665764.8, 4279462.7, 0.0, 0.0, 1.8); (665152.6, 4279121.8, 0.0, 0.0, 1.8);
(665071.2, 4279598.3, 0.0, 0.0, 1.8); (664718.7, 4279567.3, 0.0, 0.0, 1.8);
(664486.2, 4279404.6, 0.0, 0.0, 1.8); (663161.1, 4279176.0, 0.0, 0.0, 1.8);
(662734.9, 4279117.9, 0.0, 0.0, 1.8); (668077.9, 4276587.8, 0.0, 0.0, 1.8);
(667888.0, 4277149.6, 0.0, 0.0, 1.8); (667698.2, 4277513.8, 0.0, 0.0, 1.8);
(667326.2, 4278765.3, 0.0, 0.0, 1.8); (667202.2, 4279249.6, 0.0, 0.0, 1.8);
(665776.4, 4279609.9, 0.0, 0.0, 1.8); (664005.8, 4279609.9, 0.0, 0.0, 1.8);
(662851.2, 4279598.3, 0.0, 0.0, 1.8); (662734.9, 4276320.5, 0.0, 0.0, 1.8);
(668682.3, 4276324.4, 0.0, 0.0, 1.8);

**MODELOPTs: NonDFAULT CONC FLAT FLGPOL

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *

LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
FUG1	665724.4	4277905.7	-22.70
FUG2	665724.4	4277783.5	-42.85
FUG3	665724.4	4277661.2	-31.40
FUG4	665724.4	4277539.0	-10.60
FUG5	665724.4	4277416.8	-32.33
FUG6	665724.4	4277294.5	-42.20
FUG9	665537.1	4277661.2	-3.72
FUG11	665537.1	4277416.8	-2.08

```
                                  FUG12               665537.1     4277294.5
-2.52
                                  FUG19               665349.8     4277905.7
-22.85
                                  FUG20               665349.8     4277783.5
-16.17
                                  FUG21               665349.8     4277539.0
-38.02
                                  FUG22               665349.8     4277416.8
-16.43
                                  EX1                 665724.4     4277905.7
-22.70
                                  EX2                 665724.4     4277783.5
-42.85
                                  EX3                 665724.4     4277661.2
-31.40
                                  EX4                 665724.4     4277539.0
-10.60
                                  EX5                 665724.4     4277416.8
-32.33
                                  EX6                 665724.4     4277294.5
-42.20
                                  EX9                 665537.1     4277661.2
-3.72
                                  EX11                665537.1     4277416.8
-2.08
                                  EX12                665537.1     4277294.5
-2.52
                                  EX19                665349.8     4277905.7
-22.85
                                  EX20                665349.8     4277783.5
-16.17
                                  EX21                665349.8     4277539.0
-38.02
                                  EX22                665349.8     4277416.8
-16.43
♀ *** AERMOD - VERSION  14134 ***   *** C:\Emissions Models\Folsom\White Rock
Springs Ranch\AERMOD\White Roc ***        06/18/15
 *** AERMET - VERSION  14134 ***   ***
                       ***        09:34:09

                                  PAGE  11
 **MODELOPTs:   NonDFAULT CONC      FLAT      FLGPOL

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

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

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

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

♀ *** AERMOD - VERSION 14134 *** *** C:\Emissions Models\Folsom\White Rock Springs Ranch\AERMOD\White Roc *** 06/18/15
*** AERMET - VERSION 14134 *** *** 09:34:09

**MODELOPTs: NonDFAULT CONC FLAT FLGPOL

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

Surface file: ..\Int 10-14 N1MD.SFC
Met Version: 14134
Profile file: ..\Int 10-14 N1MD.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 93225 Upper air station no.: 23230
Name: UNKNOWN Name: OAKLAND/WSO_AP
Year: 2010 Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
10	01	01	1	01	-11.2	0.101	-9.000	-9.000	-999.	78.	8.6	0.04	0.69	1.00	2.86	121.	10.1	282.0	2.0
10	01	01	1	02	-35.3	0.309	-9.000	-9.000	-999.	412.	76.4	0.04	0.69	1.00	4.86	128.	10.1	282.5	2.0
10	01	01	1	03	-13.4	0.117	-9.000	-9.000	-999.	137.	11.0	0.06	0.69	1.00	2.86	154.	10.1	283.1	2.0
10	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.05	0.69	1.00	0.00	0.	10.1	282.5	2.0
10	01	01	1	05	-4.0	0.072	-9.000	-9.000	-999.	46.	8.4	0.07	0.69	1.00	1.76	203.	10.1	282.5	2.0
10	01	01	1	06	-12.3	0.180	-9.000	-9.000	-999.	184.	43.7	0.06	0.69	1.00	2.86	172.	10.1	282.5	2.0
10	01	01	1	07	-18.8	0.328	-9.000	-9.000	-999.	451.	171.8	0.04	0.69	1.00	4.86	145.	10.1	282.0	2.0
10	01	01	1	08	-18.4	0.271	-9.000	-9.000	-999.	340.	98.8	0.06	0.69	1.00	3.86	163.	10.1	283.1	2.0
10	01	01	1	09	1.7	0.275	0.091	0.005	16.	347.	-1106.6	0.07	0.69	0.41	3.36	187.	10.1	283.8	2.0
10	01	01	1	10	18.3	0.346	0.376	0.005	106.	489.	-207.9	0.06	0.69	0.28	4.36	151.	10.1	284.2	2.0
10	01	01	1	11	32.1	0.280	0.546	0.005	185.	358.	-62.7	0.06	0.69	0.24	3.36	174.	10.1	284.9	2.0

```
 10 01 01   1 12   17.3  0.237  0.468  0.006  216.  277.    -70.3  0.06   0.69
0.22    2.86  176.   10.1  284.9    2.0
 10 01 01   1 13   17.9  0.253  0.491  0.005  242.  306.    -82.9  0.04   0.69
0.22    3.36  143.   10.1  284.9    2.0
 10 01 01   1 14   72.4  0.444  0.876  0.005  339.  710.   -110.3  0.04   0.69
0.23    5.96  149.   10.1  285.9    2.0
 10 01 01   1 15    9.0  0.350  0.445  0.005  356.  503.   -434.5  0.04   0.69
0.26    4.86  132.   10.1  285.9    2.0
 10 01 01   1 16    6.8  0.314  0.410  0.005  368.  424.   -414.6  0.04   0.69
0.35    4.36  144.   10.1  285.9    2.0
 10 01 01   1 17    1.6 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.05   0.69
0.61    0.00    0.   10.1  285.9    2.0
 10 01 01   1 18   -3.6  0.068 -9.000 -9.000 -999.   42.      7.8  0.06   0.69
1.00    1.76  177.   10.1  285.4    2.0
 10 01 01   1 19   -3.7  0.068 -9.000 -9.000 -999.   42.      7.8  0.06   0.69
1.00    1.76  154.   10.1  284.9    2.0
 10 01 01   1 20   -8.5  0.150 -9.000 -9.000 -999.  139.     36.1  0.07   0.69
1.00    2.36  207.   10.1  284.9    2.0
 10 01 01   1 21  -10.7  0.188 -9.000 -9.000 -999.  196.     57.2  0.06   0.69
1.00    2.86  170.   10.1  284.9    2.0
 10 01 01   1 22   -7.8  0.138 -9.000 -9.000 -999.  124.     30.7  0.06   0.69
1.00    2.36  172.   10.1  284.2    2.0
 10 01 01   1 23  -14.9  0.150 -9.000 -9.000 -999.  140.     20.7  0.06   0.69
1.00    2.86  160.   10.1  284.2    2.0
 10 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.05   0.69
1.00    0.00    0.   10.1  279.9    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 10 01 01 01   10.1 1  121.    2.86   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
♀ *** AERMOD - VERSION  14134 ***   *** C:\Emissions Models\Folsom\White Rock
Springs Ranch\AERMOD\White Roc ***        06/18/15
 *** AERMET - VERSION  14134 ***   ***
                        ***        09:34:09

                                   PAGE  13
 **MODELOPTs:   NonDFAULT CONC      FLAT      FLGPOL

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     FUG1        , FUG2
, FUG3        , FUG4        , FUG5        ,
                  FUG6        , FUG7        , FUG8        , FUG9        , FUG10
, FUG11       , FUG12       , FUG13       ,
                  FUG14       , FUG15       , FUG16       , FUG17       , FUG18
, FUG19       , FUG20       , FUG21       ,
                  FUG22       , FUG23       , FUG24       , FUG25       , FUG26
, FUG27       , EX1         ,  . . .      ,

                                     *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

    Y-COORD  |                                                  X-COORD (METERS)
    (METERS) |     662727.16    662914.49    663101.82    663289.15    663476.48
663663.81    663851.14    664038.47    664225.80
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
 4278761.41 |       0.00826      0.00921      0.01011      0.01147      0.01382
0.01708      0.02082      0.02593      0.03330
 4278639.17 |       0.00782      0.00914      0.01046      0.01168      0.01335
0.01629      0.02061      0.02570      0.03313
 4278516.93 |       0.00720      0.00844      0.01004      0.01183      0.01361
0.01583      0.01960      0.02540      0.03278
 4278394.69 |       0.00694      0.00791      0.00923      0.01103      0.01331
0.01588      0.01907      0.02419      0.03221
 4278272.45 |       0.00672      0.00770      0.00885      0.01034      0.01238
0.01508      0.01852      0.02320      0.03072
 4278150.21 |       0.00618      0.00716      0.00838      0.00987      0.01176
0.01427      0.01760      0.02211      0.02867
 4278027.97 |       0.00573      0.00658      0.00768      0.00907      0.01084
0.01318      0.01643      0.02085      0.02714
 4277905.73 |       0.00567      0.00639      0.00730      0.00850      0.01011
0.01223      0.01509      0.01929      0.02548
 4277783.49 |       0.00569      0.00641      0.00729      0.00839      0.00980
0.01169      0.01430      0.01791      0.02318
 4277661.25 |       0.00555      0.00624      0.00706      0.00807      0.00932
0.01093      0.01313      0.01629      0.02104
 4277539.01 |       0.00528      0.00590      0.00666      0.00763      0.00888
0.01051      0.01262      0.01543      0.01942
 4277416.77 |       0.00520      0.00584      0.00662      0.00756      0.00870
0.01012      0.01194      0.01442      0.01783
 4277294.53 |       0.00517      0.00578      0.00648      0.00729      0.00828
0.00958      0.01130      0.01364      0.01683
 4277172.29 |       0.00496      0.00545      0.00605      0.00681      0.00779
0.00899      0.01051      0.01250      0.01552
 4277050.05 |       0.00458      0.00506      0.00567      0.00641      0.00731
0.00837      0.00980      0.01193      0.01472
 4276927.81 |       0.00440      0.00491      0.00551      0.00619      0.00696
0.00805      0.00948      0.01139      0.01400
 4276805.57 |       0.00436      0.00482      0.00529      0.00587      0.00666
0.00768      0.00909      0.01096      0.01328
 4276683.33 |       0.00419      0.00453      0.00497      0.00556      0.00640
0.00752      0.00890      0.01059      0.01246
 4276561.09 |       0.00390      0.00427      0.00478      0.00550      0.00638
0.00742      0.00863      0.01007      0.01162
 4276438.85 |       0.00375      0.00421      0.00481      0.00549      0.00627
0.00718      0.00837      0.00955      0.01085
 4276316.61 |       0.00375      0.00424      0.00478      0.00537      0.00610
0.00708      0.00803      0.00895      0.00984
♀ *** AERMOD - VERSION  14134 ***   *** C:\Emissions Models\Folsom\White Rock
Springs Ranch\AERMOD\White Roc ***        06/18/15
 *** AERMET - VERSION  14134 ***   ***
                       ***        09:34:09

                                  PAGE  14
 **MODELOPTs:   NonDFAULT CONC      FLAT      FLGPOL

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     FUG1        , FUG2
, FUG3        , FUG4        , FUG5        ,
                FUG6        , FUG7        , FUG8        , FUG9        , FUG10
, FUG11       , FUG12       , FUG13       ,
                FUG14       , FUG15       , FUG16       , FUG17       , FUG18
, FUG19       , FUG20       , FUG21       ,
                FUG22       , FUG23       , FUG24       , FUG25       , FUG26
, FUG27       , EX1         ,  . . .      ,

                                     *** NETWORK ID: UCART1   ;  NETWORK TYPE:
```

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	664413.13	664600.46	664787.79	664975.12	665162.45	665349.78	665537.11	665724.44	665911.77
4278761.41	0.04176	0.05257	0.06452	0.07411	0.07975	0.07806	0.07058	0.05961	0.04730
4278639.17	0.04295	0.05637	0.07199	0.08620	0.09590	0.09512	0.08616	0.07077	0.05390
4278516.93	0.04381	0.05862	0.07934	0.10068	0.11749	0.11920	0.10775	0.08520	0.06208
4278394.69	0.04365	0.06037	0.08625	0.11833	0.14689	0.15464	0.13928	0.10561	0.07201
4278272.45	0.04257	0.06142	0.09088	0.13792	0.18866	0.20927	0.18920	0.13632	0.08382
4278150.21	0.04019	0.05963	0.09355	0.15783	0.25149	0.30066	0.27372	0.18822	0.09681
4278027.97	0.03715	0.05507	0.09141	0.16928	0.36486	0.47462	0.44900	0.30633	0.10786
4277905.73	0.03464	0.05052	0.08375	0.16594	0.53137	0.51604	0.90707	0.35526	0.11706
4277783.49	0.03177	0.04591	0.07521	0.15209	0.57262	0.60304	0.86816	0.53176	0.15842
4277661.25	0.02838	0.04072	0.06438	0.12845	0.53343	0.80358	0.68560	0.47721	0.20445
4277539.01	0.02549	0.03550	0.05560	0.10195	0.33944	0.73725	1.10099	0.47669	0.21544
4277416.77	0.02319	0.03202	0.04764	0.08098	0.18604	0.74923	0.74634	0.53469	0.21565
4277294.53	0.02143	0.02954	0.04171	0.06523	0.12268	0.50629	0.53043	0.36933	0.22785
4277172.29	0.02009	0.02653	0.03616	0.05361	0.08797	0.17479	0.39445	0.31982	0.22045
4277050.05	0.01866	0.02402	0.03148	0.04416	0.06659	0.10477	0.17838	0.20100	0.17437
4276927.81	0.01731	0.02139	0.02800	0.03676	0.05143	0.07221	0.10341	0.13367	0.13093
4276805.57	0.01594	0.01949	0.02477	0.03123	0.04092	0.05397	0.06993	0.09287	0.09884
4276683.33	0.01461	0.01780	0.02140	0.02644	0.03389	0.04270	0.05195	0.06610	0.07554
4276561.09	0.01358	0.01590	0.01860	0.02277	0.02842	0.03480	0.04074	0.04938	0.05890
4276438.85	0.01217	0.01429	0.01648	0.02007	0.02426	0.02893	0.03305	0.03859	0.04580
4276316.61	0.01115	0.01264	0.01482	0.01784	0.02108	0.02457	0.02752	0.03126	0.03632

♀ *** AERMOD - VERSION 14134 *** *** C:\Emissions Models\Folsom\White Rock Springs Ranch\AERMOD\White Roc *** 06/18/15
*** AERMET - VERSION 14134 *** *** *** 09:34:09

**MODELOPTs: NonDFAULT CONC FLAT FLGPOL

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): FUG1 , FUG2
, FUG3 , FUG4 , FUG5 ,
FUG6 , FUG7 , FUG8 , FUG9 , FUG10
, FUG11 , FUG12 , FUG13 ,
FUG14 , FUG15 , FUG16 , FUG17 , FUG18
, FUG19 , FUG20 , FUG21 ,
FUG22 , FUG23 , FUG24 , FUG25 , FUG26
, FUG27 , EX1 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	666099.10	666286.43	666473.76
4278761.41	0.03755	0.02765	0.02001
4278639.17	0.04103	0.02862	0.02022
4278516.93	0.04428	0.02949	0.02033
4278394.69	0.04693	0.02990	0.02030
4278272.45	0.04899	0.02994	0.02004
4278150.21	0.05034	0.02968	0.01962
4278027.97	0.05058	0.02912	0.01932
4277905.73	0.05139	0.02961	0.01969
4277783.49	0.06042	0.03352	0.02197
4277661.25	0.07651	0.04032	0.02584
4277539.01	0.09150	0.04932	0.03132
4277416.77	0.10457	0.05969	0.03778
4277294.53	0.11708	0.06935	0.04485
4277172.29	0.12412	0.07637	0.05091
4277050.05	0.12004	0.07998	0.05466
4276927.81	0.10767	0.07848	0.05646
4276805.57	0.09144	0.07345	0.05550
4276683.33	0.07578	0.06601	0.05348
4276561.09	0.06241	0.05823	0.04964
4276438.85	0.05108	0.05064	0.04521
4276316.61	0.04242	0.04366	0.04088

♀ *** AERMOD - VERSION 14134 *** *** C:\Emissions Models\Folsom\White Rock Springs Ranch\AERMOD\White Roc *** 06/18/15
*** AERMET - VERSION 14134 *** *** 09:34:09

**MODELOPTs: NonDFAULT CONC FLAT FLGPOL

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): FUG1 , FUG2
, FUG3 , FUG4 , FUG5 ,
FUG6 , FUG7 , FUG8 , FUG9 , FUG10
, FUG11 , FUG12 , FUG13 ,
FUG14 , FUG15 , FUG16 , FUG17 , FUG18
, FUG19 , FUG20 , FUG21 ,
FUG22 , FUG23 , FUG24 , FUG25 , FUG26
, FUG27 , EX1 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
666454.43	4277219.37	0.05078	666365.32	4277591.33	0.03707
666357.57	4277874.16	0.02540	666148.35	4278408.85	0.04127
665981.74	4278928.03	0.03700	666028.24	4279094.63	0.03069
665764.77	4279462.71	0.02686	665152.60	4279121.75	0.04983
665071.24	4279598.32	0.03090	664718.66	4279567.32	0.03085
664486.19	4279404.59	0.03226	663161.11	4279176.00	0.01121
662734.91	4279117.88	0.00792	668077.85	4276587.83	0.00974
667888.00	4277149.63	0.00821	667698.15	4277513.84	0.00677
667326.20	4278765.30	0.00674	667202.21	4279249.61	0.00778
665776.40	4279609.94	0.02357	664005.75	4279609.94	0.02135
662851.15	4279598.32	0.00953	662734.91	4276320.49	0.00377
668682.27	4276324.36	0.00681			

♀ *** AERMOD - VERSION 14134 *** *** C:\Emissions Models\Folsom\White Rock Springs Ranch\AERMOD\White Roc *** 06/18/15
*** AERMET - VERSION 14134 *** *** 09:34:09

**MODELOPTs: NonDFAULT CONC FLAT FLGPOL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): FUG1 , FUG2 , FUG3 , FUG4 , FUG5 ,
FUG6 , FUG7 , FUG8 , FUG9 , FUG10 , FUG11 , FUG12 , FUG13 ,
FUG14 , FUG15 , FUG16 , FUG17 , FUG18 , FUG19 , FUG20 , FUG21 ,
FUG22 , FUG23 , FUG24 , FUG25 , FUG26 , FUG27 , EX1 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)		
	662727.16	662914.49	663101.82
663289.15	663476.48		
4278761.4	0.14556b(13013024)	0.18620c(11121724)	0.22842c(11121724)

```
    0.22454c(14121224)      0.22712c(14121224)
 4278639.2 |      0.16916b(13121824)      0.17844b(13121824)      0.18578c(11121724)
    0.25608c(11121724)      0.25179c(11121724)
 4278516.9 |      0.18132c(13011024)      0.18838c(13011024)      0.19805b(13121824)
    0.20062b(13121824)      0.27152c(11121724)
 4278394.7 |      0.14796b(14041424)      0.17542c(13011024)      0.20234c(13011024)
    0.21239c(13011024)      0.23093b(13031224)
 4278272.4 |      0.15269b(14041424)      0.15933b(14041424)      0.16722c(13011024)
    0.19941c(13011024)      0.22485c(13011024)
 4278150.2 |      0.17013c(11122024)      0.18575c(11122024)      0.21037c(11122024)
    0.23947c(11122024)      0.26179c(11122024)
 4278028.0 |      0.15975c(10010524)      0.17093c(10010524)      0.18568c(11122024)
    0.21761c(11122024)      0.26794c(11122024)
 4277905.7 |      0.16178c(11122024)      0.16570c(11122024)      0.16922c(11122024)
    0.18675c(10010524)      0.20764c(10010524)
 4277783.5 |      0.18841c(10120424)      0.20038c(10120424)      0.21368c(10120424)
    0.22879c(10120424)      0.24583c(10120424)
 4277661.2 |      0.18759b(14011324)      0.22265b(14011324)      0.26067b(14011324)
    0.29949b(14011324)      0.33738b(14011324)
 4277539.0 |      0.21616b(14011324)      0.24198b(14011324)      0.27302b(14011324)
    0.31184b(14011324)      0.35911b(14011324)
 4277416.8 |      0.18753b(14011324)      0.21071b(14011324)      0.24151b(14011324)
    0.27960b(14011324)      0.32331b(14011324)
 4277294.5 |      0.20314c(14012824)      0.22088c(14012824)      0.23837c(14012824)
    0.25299b(14011324)      0.26666b(14011324)
 4277172.3 |      0.20468b(14011324)      0.21385b(14011324)      0.22304b(14011324)
    0.23496b(14011324)      0.25045b(14011324)
 4277050.0 |      0.19098b(14011324)      0.19350b(14011324)      0.19373b(14011324)
    0.19125b(14011324)      0.18754b(14011324)
 4276927.8 |      0.12568c(14121824)      0.12869c(14121824)      0.14281b(11123124)
    0.17559b(11123124)      0.21931b(10123124)
 4276805.6 |      0.11440b(11123124)      0.14636b(11123124)      0.17132b(11123124)
    0.20721b(10123124)      0.23541b(10123124)
 4276683.3 |      0.14704b(11123124)      0.16211b(11123124)      0.17563b(10123124)
    0.18919b(10123124)      0.18798b(10123124)
 4276561.1 |      0.14889b(11123124)      0.15012b(11123124)      0.16009b(10123124)
    0.16170b(10123124)      0.16755c(11120624)
 4276438.8 |      0.14096b(11123124)      0.14685b(10123124)      0.14746b(10123124)
    0.15429c(11120624)      0.16135c(11120624)
 4276316.6 |      0.13723b(10123124)      0.13718b(10123124)      0.14396c(11120624)
    0.15103c(11120624)      0.18100c(13013124)
♀ *** AERMOD - VERSION  14134 ***   *** C:\Emissions Models\Folsom\White Rock
Springs Ranch\AERMOD\White Roc ***        06/18/15
 *** AERMET - VERSION  14134 ***   ***
                      ***        09:34:09

                                   PAGE  18
 **MODELOPTs:   NonDFAULT CONC      FLAT      FLGPOL

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     FUG1        , FUG2
, FUG3        , FUG4        , FUG5        ,
                  FUG6        , FUG7        , FUG8        , FUG9        , FUG10
, FUG11       , FUG12       , FUG13       ,
                  FUG14       , FUG15       , FUG16       , FUG17       , FUG18
, FUG19       , FUG20       , FUG21       ,
                  FUG22       , FUG23       , FUG24       , FUG25       , FUG26
, FUG27       , EX1         ,  . . .      ,

                                      *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***
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Y-COORD (METERS)	X-COORD (METERS)			
	663663.81	663851.14	664038.47	664225.80	664413.13
4278761.4	0.25319b(13121024)	0.32248b(13121024)	0.33174b(10020324)	0.39485b(10020324)	0.51192b(12011724)
4278639.2	0.24182c(14121224)	0.28969b(13121024)	0.36711b(13121024)	0.40181b(10020324)	0.50138c(12121124)
4278516.9	0.29912c(11121724)	0.28070c(13011024)	0.36173b(13013024)	0.44915b(13013024)	0.47166b(10020324)
4278394.7	0.27147c(11121724)	0.34152c(11121724)	0.37148c(13011024)	0.46097b(13013024)	0.55589b(13013024)
4278272.4	0.26309b(13031224)	0.30550b(13031224)	0.36556c(11121724)	0.49487c(13011024)	0.57013b(13013024)
4278150.2	0.26770c(11122024)	0.27278b(13031224)	0.33648b(13031224)	0.41544c(13011024)	0.63630c(13011024)
4278028.0	0.32894c(11122024)	0.39367c(11122024)	0.45305c(11122024)	0.47158c(11122024)	0.44789c(11121724)
4277905.7	0.22564c(10122224)	0.29150c(11122024)	0.37310c(11122024)	0.46195c(11122024)	0.52452c(11122024)
4277783.5	0.26448c(10120424)	0.28452c(10120424)	0.31941b(14011324)	0.41237b(14011324)	0.53938b(14011324)
4277661.2	0.37581b(14011324)	0.42366b(14011324)	0.49880b(14011324)	0.61478b(14011324)	0.74642b(14011324)
4277539.0	0.41169b(14011324)	0.46410b(14011324)	0.51753b(14011324)	0.58383b(14011324)	0.66156b(14011324)
4277416.8	0.37057b(14011324)	0.41761b(14011324)	0.46030b(14011324)	0.50610b(14011324)	0.58415b(14011324)
4277294.5	0.28316b(14011324)	0.30844b(14011324)	0.33930b(14011324)	0.36354b(14011324)	0.46022b(10123124)
4277172.3	0.26652b(14011324)	0.28020b(14011324)	0.29726b(10123124)	0.38286b(10123124)	0.40359b(10123124)
4277050.0	0.21086b(10123124)	0.29410b(10123124)	0.34444b(10123124)	0.37112b(10123124)	0.37271b(10123124)
4276927.8	0.27599b(10123124)	0.29848b(10123124)	0.29980b(10123124)	0.29282c(12120324)	0.38174c(12120324)
4276805.6	0.24140b(10123124)	0.22128b(10123124)	0.24265c(12120324)	0.31733c(13013124)	0.37008c(12120324)
4276683.3	0.18480c(11120624)	0.19910c(12120324)	0.27254c(13013124)	0.32434c(13013124)	0.35521c(13013124)
4276561.1	0.17238c(11120624)	0.23606c(13013124)	0.29585c(13013124)	0.31164c(13013124)	0.31641c(13013124)
4276438.8	0.20608c(13013124)	0.26702c(13013124)	0.27875c(13013124)	0.28828c(13013124)	0.23602c(12120324)
4276316.6	0.23829c(13013124)	0.25625c(13013124)	0.26302c(13013124)	0.22883c(12120324)	0.23022b(11022324)

♀ *** AERMOD - VERSION 14134 *** *** C:\Emissions Models\Folsom\White Rock Springs Ranch\AERMOD\White Roc *** 06/18/15
*** AERMET - VERSION 14134 *** *** *** 09:34:09

**MODELOPTs: NonDFAULT CONC FLAT FLGPOL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): FUG1 , FUG2 , FUG3 , FUG4 , FUG5 ,

FUG6 , FUG7 , FUG8 , FUG9 , FUG10
, FUG11 , FUG12 , FUG13 ,
FUG14 , FUG15 , FUG16 , FUG17 , FUG18
, FUG19 , FUG20 , FUG21 ,
FUG22 , FUG23 , FUG24 , FUG25 , FUG26
, FUG27 , EX1 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)				
	664600.46	664787.79	664975.12	665162.45	665349.78
4278761.4	0.66633b(12011724)	0.75850b(12011724)	0.62147b(11030824)	0.73991b(11030824)	0.59395b(11030824)
4278639.2	0.72386b(12011724)	0.84971b(12011724)	0.79747b(12011724)	0.82776b(11030824)	0.69510b(11030824)
4278516.9	0.67987b(12011724)	0.88092b(12011724)	1.02443b(12011724)	0.90838b(11030824)	0.84705b(11030824)
4278394.7	0.60994b(12011724)	0.97538b(12011724)	1.32472b(12011724)	1.02163b(12011724)	1.01556b(11030824)
4278272.4	0.72157b(10020324)	0.97515b(12011724)	1.47965b(12011724)	1.35636b(12011724)	1.16717b(11030824)
4278150.2	0.75543c(13011024)	0.92297b(10020324)	1.48309b(12011724)	1.73716b(12011724)	1.47314b(12011724)
4278028.0	0.75969c(13011024)	0.98640c(13011024)	1.39964b(12011724)	2.51330b(12011724)	2.13859b(12011724)
4277905.7	0.59339c(13031124)	0.88790c(13011024)	1.20270b(10020324)	2.88585b(12011724)	2.12900b(10020324)
4277783.5	0.74317c(12012424)	0.92640b(14011324)	1.17972b(10020324)	3.16229b(12011724)	1.89010b(12011724)
4277661.2	0.83931b(14011324)	0.91301b(14011324)	1.13870c(12012424)	2.75903b(13031224)	2.56459c(12120324)
4277539.0	0.74404b(14011324)	0.88203b(14011324)	1.23912b(14011324)	2.66380b(14011324)	2.44762c(12120324)
4277416.8	0.73142b(14011324)	0.89739b(14011324)	1.12473b(14011324)	1.64950b(14011324)	2.33020b(13031224)
4277294.5	0.55639c(14012824)	0.69520c(14012824)	0.95031b(14011324)	1.23321b(14011324)	3.22445c(13010324)
4277172.3	0.49504b(10123124)	0.56421c(12120324)	0.72695c(12120324)	1.14907c(13120924)	1.74045c(13120924)
4277050.0	0.48477c(12120324)	0.50913c(12120324)	0.62443c(12120324)	1.02886c(13120924)	1.48239c(13120924)
4276927.8	0.44911c(12120324)	0.46061c(13013124)	0.51725c(12010324)	0.90304c(13120924)	1.33725c(13120924)
4276805.6	0.40473c(13013124)	0.38092c(13013124)	0.50426c(12030824)	0.80714c(13120924)	1.18041c(13120924)
4276683.3	0.34761c(13013124)	0.42641c(12030824)	0.51964c(12030824)	0.80956c(13120924)	1.02852c(13120924)
4276561.1	0.29735c(14010424)	0.37585c(11041524)	0.46834c(12030824)	0.75534c(13120924)	0.96111c(13120924)
4276438.8	0.33108c(12030824)	0.36766c(12030824)	0.38919c(12030824)	0.66153c(13120924)	0.84978c(13120924)
4276316.6	0.32810c(12030824)	0.38337c(12030824)	0.38020b(14011924)	0.61539c(13120924)	0.71587c(13120924)

**MODELOPTs: NonDFAULT CONC FLAT FLGPOL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): FUG1 , FUG2 , FUG3 , FUG4 , FUG5 ,
FUG6 , FUG7 , FUG8 , FUG9 , FUG10 , FUG11 , FUG12 , FUG13 ,
FUG14 , FUG15 , FUG16 , FUG17 , FUG18 , FUG19 , FUG20 , FUG21 ,
FUG22 , FUG23 , FUG24 , FUG25 , FUG26 , FUG27 , EX1 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)			
	665537.11	665724.44	665911.77	666099.10	666286.43
4278761.4	0.47887b(11041424)	0.48847c(12010224)	0.40366c(14021024)	0.37920c(12122724)	0.37556b(11092224)
4278639.2	0.53603b(11041424)	0.55628b(11041424)	0.46935m(10040524)	0.43626m(10040524)	0.42157c(12122724)
4278516.9	0.63395b(11041424)	0.66409b(11041424)	0.54452m(10040524)	0.48088c(12122724)	0.43970b(10121624)
4278394.7	0.79340b(11041424)	0.85161m(10040524)	0.63783m(10040524)	0.58711c(12122724)	0.41435c(11112424)
4278272.4	1.04858b(11041424)	1.03844m(10040524)	0.74339m(10040524)	0.57908c(12122724)	0.43707c(11112424)
4278150.2	1.33566b(11041424)	1.30348m(10040524)	1.00251c(12122724)	0.58126c(12122724)	0.44450b(12090224)
4278028.0	1.94896b(11030824)	1.65817m(10040524)	1.08482c(12122724)	0.72076b(12090224)	0.47559b(12090224)
4277905.7	3.08429b(12011724)	1.67826m(10040524)	1.02469c(12122724)	0.58826 (10111924)	0.52440b(12090224)
4277783.5	2.39107c(11112324)	1.86752c(11122824)	1.18213b(14012324)	0.66694b(14012324)	0.46614c(14120924)
4277661.2	2.26074c(12122724)	2.10895b(14110724)	1.33057b(14012324)	0.77355b(11121024)	0.50736b(11121024)
4277539.0	2.98430c(12120324)	2.14031b(14110724)	1.42245b(11102824)	0.84294b(13103024)	0.61324b(11121024)
4277416.8	3.05728b(14011924)	2.61802c(13010324)	1.46476b(12110224)	0.93125b(12110224)	0.70007b(13103024)
4277294.5	3.19731c(13122324)	2.67665b(14110724)	1.62907b(12110224)	1.02913b(12110224)	0.70762b(12110224)
4277172.3	3.26902b(10031624)	2.58416b(13112524)	1.85794b(14011924)	1.12302b(13103024)	0.82999b(12110224)
4277050.0	2.03312c(13010324)	2.02473b(10031624)	1.59696b(10031624)	1.19048b(14011924)	0.95004b(13103024)
4276927.8	1.44111c(13120924)	1.57484c(13010324)	1.39243b(10031624)	1.11682b(14011924)	0.85584b(14011924)
4276805.6	1.03954c(13120924)	1.26079b(10031624)	1.24810b(10031624)	0.97716b(10031624)	0.83936b(14011924)

 4276683.3 | 0.79494c(13120924)   1.04541c(13010324)   0.99504b(10031624)
     1.00539b(10031624)   0.77935b(10092824)
 4276561.1 | 0.63274c(13120924)   0.95129c(13010324)   0.87073b(10031624)
     0.88764b(10031624)   0.67307b(10092824)
 4276438.8 | 0.51537c(13120924)   0.78323c(13010324)   0.74547b(10031624)
     0.80076b(10031624)   0.71206b(10031624)
 4276316.6 | 0.45405c(13120924)   0.56915c(13010324)   0.55326c(13010324)
     0.74698b(10031624)   0.69399b(10031624)

 **MODELOPTs: NonDFAULT CONC   FLAT   FLGPOL

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   FUG1   , FUG2
, FUG3   , FUG4   , FUG5   ,
                  FUG6   , FUG7   , FUG8   , FUG9   , FUG10
, FUG11   , FUG12   , FUG13   ,
                  FUG14   , FUG15   , FUG16   , FUG17   , FUG18
, FUG19   , FUG20   , FUG21   ,
                  FUG22   , FUG23   , FUG24   , FUG25   , FUG26
, FUG27   , EX1   , . . .   ,

                                    *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

  Y-COORD | X-COORD (METERS)
  (METERS) | 666473.76
 -
- -

 4278761.4 | 0.34681b(10121624)
 4278639.2 | 0.32806b(10121624)
 4278516.9 | 0.36222c(11112424)
 4278394.7 | 0.35075c(11112424)
 4278272.4 | 0.32332c(11112424)
 4278150.2 | 0.46485b(12090224)
 4278028.0 | 0.39113b(12090224)
 4277905.7 | 0.37162 (10111924)
 4277783.5 | 0.40526c(14122724)
 4277661.2 | 0.41280c(14122724)
 4277539.0 | 0.49906b(11121024)
 4277416.8 | 0.55047b(11121024)
 4277294.5 | 0.57245b(13103024)
 4277172.3 | 0.59049b(12110224)
 4277050.0 | 0.69516b(13103024)
 4276927.8 | 0.80827b(13103024)
 4276805.6 | 0.64833b(14011924)
 4276683.3 | 0.66593b(14011924)
 4276561.1 | 0.64232b(10092824)
 4276438.8 | 0.59949b(10092824)
 4276316.6 | 0.49342b(10092824)

 **MODELOPTs: NonDFAULT CONC   FLAT   FLGPOL

*** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
INCLUDING SOURCE(S):   FUG1   , FUG2   , FUG3   , FUG4   , FUG5   ,
FUG6   , FUG7   , FUG8   , FUG9   , FUG10   , FUG11   , FUG12   , FUG13   ,
FUG14   , FUG15   , FUG16   , FUG17   , FUG18   , FUG19   , FUG20   , FUG21   ,
FUG22   , FUG23   , FUG24   , FUG25   , FUG26   , FUG27   , EX1   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
666454.43	4277219.37	0.56452b	(13103024)	666365.32	4277591.33	0.51577b	(11121024)
666357.57	4277874.16	0.42245	(10111924)	666148.35	4278408.85	0.54155b	(10121624)
665981.74	4278928.03	0.36256c	(14021024)	666028.24	4279094.63	0.32997c	(14021024)
665764.77	4279462.71	0.24872c	(12010224)	665152.60	4279121.75	0.54055b	(11030824)
665071.24	4279598.32	0.36547b	(11030824)	664718.66	4279567.32	0.33155b	(11030824)
664486.19	4279404.59	0.36680b	(12011724)	663161.11	4279176.00	0.19343b	(13121024)
662734.91	4279117.88	0.18606c	(14121224)	668077.85	4276587.83	0.15275b	(10121324)
667888.00	4277149.63	0.17261c	(14122724)	667698.15	4277513.84	0.16559b	(10052224)
667326.20	4278765.30	0.16353c	(10031024)	667202.21	4279249.61	0.18047c	(11112424)
665776.40	4279609.94	0.22034c	(10020824)	664005.75	4279609.94	0.31430b	(12011724)
662851.15	4279598.32	0.16397c	(13011024)	662734.91	4276320.49	0.13756b	(10123124)
668682.27	4276324.36	0.12513b	(10121324)				

♀ *** AERMOD - VERSION 14134 ***   *** C:\Emissions Models\Folsom\White Rock Springs Ranch\AERMOD\White Roc ***   06/18/15
 *** AERMET - VERSION 14134 ***   ***   ***   09:34:09

 **MODELOPTs: NonDFAULT CONC   FLAT   FLGPOL

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

```
                         NETWORK
GROUP ID                        AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

ALL        1ST HIGHEST VALUE IS       1.10099 AT (  665537.11,  4277539.01,     0.00,
    0.00,    1.80)  GC  UCART1
           2ND HIGHEST VALUE IS       0.90707 AT (  665537.11,  4277905.73,     0.00,
    0.00,    1.80)  GC  UCART1
           3RD HIGHEST VALUE IS       0.86816 AT (  665537.11,  4277783.49,     0.00,
    0.00,    1.80)  GC  UCART1
           4TH HIGHEST VALUE IS       0.80358 AT (  665349.78,  4277661.25,     0.00,
    0.00,    1.80)  GC  UCART1
           5TH HIGHEST VALUE IS       0.74923 AT (  665349.78,  4277416.77,     0.00,
    0.00,    1.80)  GC  UCART1
           6TH HIGHEST VALUE IS       0.74634 AT (  665537.11,  4277416.77,     0.00,
    0.00,    1.80)  GC  UCART1
           7TH HIGHEST VALUE IS       0.73725 AT (  665349.78,  4277539.01,     0.00,
    0.00,    1.80)  GC  UCART1
           8TH HIGHEST VALUE IS       0.68560 AT (  665537.11,  4277661.25,     0.00,
    0.00,    1.80)  GC  UCART1
           9TH HIGHEST VALUE IS       0.60304 AT (  665349.78,  4277783.49,     0.00,
    0.00,    1.80)  GC  UCART1
          10TH HIGHEST VALUE IS       0.57262 AT (  665162.45,  4277783.49,     0.00,
    0.00,    1.80)  GC  UCART1


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
♀ *** AERMOD - VERSION  14134 ***   *** C:\Emissions Models\Folsom\White Rock
Springs Ranch\AERMOD\White Roc ***       06/18/15
 *** AERMET - VERSION  14134 ***   ***
                        ***       09:34:09

                                  PAGE  24
 **MODELOPTs:   NonDFAULT CONC      FLAT      FLGPOL

                                                *** THE SUMMARY OF HIGHEST 24-HR
RESULTS ***


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
               **

                                                      DATE
                                           NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)            RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS       3.26902b ON 10031624: AT (  665537.11,
4277172.29,     0.00,     0.00,    1.80)  GC  UCART1


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
```

♀ *** AERMOD - VERSION 14134 ***   *** C:\Emissions Models\Folsom\White Rock Springs Ranch\AERMOD\White Roc ***   06/18/15
 *** AERMET - VERSION 14134 ***   ***   ***   09:34:09

 **MODELOPTs: NonDFAULT CONC   FLAT   FLGPOL

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

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

 A Total of   0 Fatal Error Message(s)
 A Total of   0 Warning Message(s)
 A Total of   9526 Informational Message(s)

 A Total of   43824 Hours Were Processed

 A Total of   7881 Calm Hours Identified

 A Total of   1645 Missing Hours Identified (3.75 Percent)

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

    ********   WARNING MESSAGES   ********
               *** NONE ***

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

APPENDIX E – CALEEMOD OUTPUT FILES – GREENHOUSE GAS EMISSIONS

White Rock Springs Ranch - Construction

Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	395.00	Dwelling Unit	138.90	711,000.00	1055

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.5	**Precipitation Freq (Days)**	58
Climate Zone	6			**Operational Year**	2016
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Development = 395 units on 138.9 acres

Construction Phase - Building construction, paving, and painting assumed to occur simultaneously

Grading - White Rock Springs Ranch = 138.9 acres

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	40
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	220.00	1,550.00
tblConstructionPhase	NumDays	3,100.00	1,550.00
tblConstructionPhase	NumDays	220.00	1,550.00
tblConstructionPhase	PhaseEndDate	7/12/2029	8/3/2023
tblConstructionPhase	PhaseEndDate	7/12/2029	8/3/2023
tblConstructionPhase	PhaseStartDate	8/4/2023	8/25/2017

tblConstructionPhase	PhaseStartDate	8/4/2023	8/25/2017
tblGrading	AcresOfGrading	775.00	138.90
tblLandUse	LotAcreage	128.25	138.90
tblProjectCharacteristics	OperationalYear	2014	2016

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					
2016	0.7698	8.5623	6.0349	6.9100e-003	2.1093	0.4292	2.5385	1.1217	0.3948	1.5166	0.0000	647.8634	647.8634	0.1914	0.0000	651.8821
2017	1.0717	8.2842	6.2010	8.8700e-003	1.0922	0.4237	1.5159	0.5439	0.3920	0.9359	0.0000	797.7847	797.7847	0.2087	0.0000	802.1670
2018	1.4628	5.9846	5.9777	0.0101	0.2086	0.3440	0.5526	0.0561	0.3220	0.3781	0.0000	854.1670	854.1670	0.1694	0.0000	857.7241
2019	1.3827	5.3321	5.8003	0.0100	0.2086	0.2966	0.5052	0.0561	0.2776	0.3337	0.0000	838.8752	838.8752	0.1672	0.0000	842.3870
2020	1.3296	4.8850	5.6697	0.0101	0.2094	0.2631	0.4724	0.0563	0.2462	0.3025	0.0000	823.9820	823.9820	0.1662	0.0000	827.4728
2021	1.2737	4.4198	5.5366	0.0100	0.2086	0.2292	0.4377	0.0561	0.2143	0.2704	0.0000	818.4778	818.4778	0.1642	0.0000	821.9254
2022	1.2186	3.8963	5.4224	0.0100	0.2078	0.1932	0.4010	0.0559	0.1808	0.2367	0.0000	813.5126	813.5126	0.1627	0.0000	816.9297
2023	0.7025	2.1208	3.1671	5.9300e-003	0.1231	0.1007	0.2238	0.0331	0.0942	0.1273	0.0000	480.8243	480.8243	0.0958	0.0000	482.8369
Total	**9.2113**	**43.4851**	**43.8097**	**0.0719**	**4.3676**	**2.2796**	**6.6472**	**1.9793**	**2.1220**	**4.1012**	**0.0000**	**6,075.4871**	**6,075.4871**	**1.3256**	**0.0000**	**6,103.3251**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2016	6/16/2016	5	120	
2	Grading	Grading	6/17/2016	8/24/2017	5	310	
3	Building Construction	Building Construction	8/25/2017	8/3/2023	5	1550	
4	Paving	Paving	8/25/2017	8/3/2023	5	1550	
5	Architectural Coating	Architectural Coating	8/25/2017	8/3/2023	5	1550	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 138.9

Acres of Paving: 0

Residential Indoor: 1,439,775; Residential Outdoor: 479,925; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	142.00	42.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

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					1.0840	0.0000	1.0840	0.5958	0.0000	0.5958	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3046	3.2779	2.4663	2.3400e-003		0.1763	0.1763		0.1622	0.1622	0.0000	221.2626	221.2626	0.0667	0.0000	222.6642
Total	**0.3046**	**3.2779**	**2.4663**	**2.3400e-003**	**1.0840**	**0.1763**	**1.2603**	**0.5958**	**0.1622**	**0.7581**	**0.0000**	**221.2626**	**221.2626**	**0.0667**	**0.0000**	**222.6642**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6200e-003	4.3200e-003	0.0453	9.0000e-005	7.9300e-003	6.0000e-005	7.9900e-003	2.1100e-003	6.0000e-005	2.1700e-003	0.0000	7.0789	7.0789	3.8000e-004	0.0000	7.0869
Total	**3.6200e-003**	**4.3200e-003**	**0.0453**	**9.0000e-005**	**7.9300e-003**	**6.0000e-005**	**7.9900e-003**	**2.1100e-003**	**6.0000e-005**	**2.1700e-003**	**0.0000**	**7.0789**	**7.0789**	**3.8000e-004**	**0.0000**	**7.0869**

3.3 Grading - 2016

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					1.0071	0.0000	1.0071	0.5210	0.0000	0.5210	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4568	5.2744	3.4642	4.3500e-003		0.2527	0.2527		0.2325	0.2325	0.0000	410.2799	410.2799	0.1238	0.0000	412.8787
Total	**0.4568**	**5.2744**	**3.4642**	**4.3500e-003**	**1.0071**	**0.2527**	**1.2598**	**0.5210**	**0.2325**	**0.7535**	**0.0000**	**410.2799**	**410.2799**	**0.1238**	**0.0000**	**412.8787**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7300e-003	5.6400e-003	0.0591	1.2000e-004	0.0104	8.0000e-005	0.0104	2.7500e-003	7.0000e-005	2.8300e-003	0.0000	9.2419	9.2419	4.9000e-004	0.0000	9.2523
Total	**4.7300e-003**	**5.6400e-003**	**0.0591**	**1.2000e-004**	**0.0104**	**8.0000e-005**	**0.0104**	**2.7500e-003**	**7.0000e-005**	**2.8300e-003**	**0.0000**	**9.2419**	**9.2419**	**4.9000e-004**	**0.0000**	**9.2523**

3.3 Grading - 2017

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					1.0071	0.0000	1.0071	0.5210	0.0000	0.5210	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5154	5.8805	3.9550	5.2100e-003		0.2803	0.2803		0.2579	0.2579	0.0000	483.9646	483.9646	0.1483	0.0000	487.0786
Total	**0.5154**	**5.8805**	**3.9550**	**5.2100e-003**	**1.0071**	**0.2803**	**1.2874**	**0.5210**	**0.2579**	**0.7789**	**0.0000**	**483.9646**	**483.9646**	**0.1483**	**0.0000**	**487.0786**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0300e-003	6.0400e-003	0.0632	1.5000e-004	0.0124	9.0000e-005	0.0125	3.3000e-003	8.0000e-005	3.3900e-003	0.0000	10.6390	10.6390	5.4000e-004	0.0000	10.6503
Total	**5.0300e-003**	**6.0400e-003**	**0.0632**	**1.5000e-004**	**0.0124**	**9.0000e-005**	**0.0125**	**3.3000e-003**	**8.0000e-005**	**3.3900e-003**	**0.0000**	**10.6390**	**10.6390**	**5.4000e-004**	**0.0000**	**10.6503**

3.4 Building Construction - 2017

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	0.1412	1.2015	0.8249	1.2200e-003		0.0811	0.0811		0.0761	0.0761	0.0000	108.9630	108.9630	0.0268	0.0000	109.5262
Total	**0.1412**	**1.2015**	**0.8249**	**1.2200e-003**		**0.0811**	**0.0811**		**0.0761**	**0.0761**	**0.0000**	**108.9630**	**108.9630**	**0.0268**	**0.0000**	**109.5262**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0220	0.1432	0.2879	4.0000e-004	0.0109	2.1300e-003	0.0130	3.1200e-003	1.9600e-003	5.0800e-003	0.0000	35.4555	35.4555	2.7000e-004	0.0000	35.4611
Worker	0.0192	0.0231	0.2417	5.7000e-004	0.0475	3.5000e-004	0.0478	0.0126	3.2000e-004	0.0129	0.0000	40.6737	40.6737	2.0700e-003	0.0000	40.7170
Total	**0.0412**	**0.1663**	**0.5296**	**9.7000e-004**	**0.0584**	**2.4800e-003**	**0.0608**	**0.0157**	**2.2800e-003**	**0.0180**	**0.0000**	**76.1291**	**76.1291**	**2.3400e-003**	**0.0000**	**76.1781**

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3483	3.0355	2.2880	3.5000e-003		0.1950	0.1950		0.1833	0.1833	0.0000	308.9844	308.9844	0.0756	0.0000	310.5723
Total	**0.3483**	**3.0355**	**2.2880**	**3.5000e-003**		**0.1950**	**0.1950**		**0.1833**	**0.1833**	**0.0000**	**308.9844**	**308.9844**	**0.0756**	**0.0000**	**310.5723**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0520	0.3700	0.7449	1.1400e-003	0.0313	5.6200e-003	0.0369	8.9400e-003	5.1700e-003	0.0141	0.0000	99.8126	99.8126	7.5000e-004	0.0000	99.8284
Worker	0.0492	0.0596	0.6228	1.6300e-003	0.1361	9.8000e-004	0.1371	0.0362	9.1000e-004	0.0371	0.0000	112.2475	112.2475	5.4500e-003	0.0000	112.3620
Total	**0.1012**	**0.4296**	**1.3676**	**2.7700e-003**	**0.1674**	**6.6000e-003**	**0.1740**	**0.0451**	**6.0800e-003**	**0.0512**	**0.0000**	**212.0601**	**212.0601**	**6.2000e-003**	**0.0000**	**212.1903**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3069	2.7359	2.2342	3.5000e-003		0.1677	0.1677		0.1577	0.1577	0.0000	305.5302	305.5302	0.0743	0.0000	307.0913
Total	**0.3069**	**2.7359**	**2.2342**	**3.5000e-003**		**0.1677**	**0.1677**		**0.1577**	**0.1577**	**0.0000**	**305.5302**	**305.5302**	**0.0743**	**0.0000**	**307.0913**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0471	0.3367	0.7040	1.1400e-003	0.0313	5.2000e-003	0.0365	8.9400e-003	4.7800e-003	0.0137	0.0000	98.1953	98.1953	7.3000e-004	0.0000	98.2107
Worker	0.0451	0.0545	0.5735	1.6200e-003	0.1361	9.7000e-004	0.1371	0.0362	9.0000e-004	0.0371	0.0000	107.7010	107.7010	5.0700e-003	0.0000	107.8075
Total	**0.0922**	**0.3911**	**1.2775**	**2.7600e-003**	**0.1674**	**6.1700e-003**	**0.1735**	**0.0451**	**5.6800e-003**	**0.0508**	**0.0000**	**205.8963**	**205.8963**	**5.8000e-003**	**0.0000**	**206.0182**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2766	2.5000	2.2019	3.5100e-003		0.1458	0.1458		0.1371	0.1371	0.0000	302.1514	302.1514	0.0736	0.0000	303.6973
Total	**0.2766**	**2.5000**	**2.2019**	**3.5100e-003**		**0.1458**	**0.1458**		**0.1371**	**0.1371**	**0.0000**	**302.1514**	**302.1514**	**0.0736**	**0.0000**	**303.6973**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0400	0.2928	0.6507	1.1400e-003	0.0314	4.6600e-003	0.0361	8.9800e-003	4.2800e-003	0.0133	0.0000	96.3198	96.3198	7.1000e-004	0.0000	96.3347
Worker	0.0423	0.0506	0.5350	1.6200e-003	0.1366	9.7000e-004	0.1376	0.0363	9.0000e-004	0.0372	0.0000	103.8337	103.8337	4.8100e-003	0.0000	103.9347
Total	**0.0823**	**0.3434**	**1.1857**	**2.7600e-003**	**0.1680**	**5.6300e-003**	**0.1736**	**0.0453**	**5.1800e-003**	**0.0505**	**0.0000**	**200.1534**	**200.1534**	**5.5200e-003**	**0.0000**	**200.2694**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2471	2.2629	2.1582	3.5000e-003		0.1246	0.1246		0.1172	0.1172	0.0000	301.0339	301.0339	0.0725	0.0000	302.5568
Total	**0.2471**	**2.2629**	**2.1582**	**3.5000e-003**		**0.1246**	**0.1246**		**0.1172**	**0.1172**	**0.0000**	**301.0339**	**301.0339**	**0.0725**	**0.0000**	**302.5568**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0365	0.2441	0.6172	1.1300e-003	0.0313	4.1800e-003	0.0355	8.9500e-003	3.8400e-003	0.0128	0.0000	95.8985	95.8985	7.0000e-004	0.0000	95.9132
Worker	0.0398	0.0471	0.4997	1.6200e-003	0.1361	9.7000e-004	0.1371	0.0362	9.0000e-004	0.0371	0.0000	101.6861	101.6861	4.5600e-003	0.0000	101.7819
Total	**0.0763**	**0.2912**	**1.1169**	**2.7500e-003**	**0.1674**	**5.1500e-003**	**0.1725**	**0.0452**	**4.7400e-003**	**0.0499**	**0.0000**	**197.5845**	**197.5845**	**5.2600e-003**	**0.0000**	**197.6951**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2209	2.0197	2.1226	3.4900e-003		0.1047	0.1047		0.0986	0.0986	0.0000	299.9946	299.9946	0.0718	0.0000	301.5017
Total	**0.2209**	**2.0197**	**2.1226**	**3.4900e-003**		**0.1047**	**0.1047**		**0.0986**	**0.0986**	**0.0000**	**299.9946**	**299.9946**	**0.0718**	**0.0000**	**301.5017**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0354	0.2177	0.5969	1.1300e-003	0.0312	4.0900e-003	0.0353	8.9200e-003	3.7600e-003	0.0127	0.0000	95.5696	95.5696	7.1000e-004	0.0000	95.5845
Worker	0.0375	0.0441	0.4686	1.6100e-003	0.1356	9.8000e-004	0.1366	0.0361	9.1000e-004	0.0370	0.0000	99.7360	99.7360	4.3500e-003	0.0000	99.8273
Total	**0.0729**	**0.2617**	**1.0655**	**2.7400e-003**	**0.1668**	**5.0700e-003**	**0.1718**	**0.0450**	**4.6700e-003**	**0.0496**	**0.0000**	**195.3055**	**195.3055**	**5.0600e-003**	**0.0000**	**195.4118**

3.4 Building Construction - 2023

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	0.1206	1.1021	1.2481	2.0700e-003		0.0537	0.0537		0.0505	0.0505	0.0000	177.7504	177.7504	0.0422	0.0000	178.6370
Total	**0.1206**	**1.1021**	**1.2481**	**2.0700e-003**		**0.0537**	**0.0537**		**0.0505**	**0.0505**	**0.0000**	**177.7504**	**177.7504**	**0.0422**	**0.0000**	**178.6370**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0196	0.1164	0.3377	6.7000e-004	0.0185	2.2700e-003	0.0208	5.2800e-003	2.0900e-003	7.3700e-003	0.0000	56.5975	56.5975	4.0000e-004	0.0000	56.6059
Worker	0.0211	0.0247	0.2624	9.5000e-004	0.0803	5.8000e-004	0.0809	0.0214	5.4000e-004	0.0219	0.0000	58.2511	58.2511	2.4800e-003	0.0000	58.3032
Total	**0.0408**	**0.1410**	**0.6001**	**1.6200e-003**	**0.0988**	**2.8500e-003**	**0.1016**	**0.0266**	**2.6300e-003**	**0.0293**	**0.0000**	**114.8487**	**114.8487**	**2.8800e-003**	**0.0000**	**114.9091**

3.5 Paving - 2017

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	0.0868	0.9235	0.6701	1.0100e-003		0.0518	0.0518		0.0477	0.0477	0.0000	94.1551	94.1551	0.0289	0.0000	94.7609
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0868**	**0.9235**	**0.6701**	**1.0100e-003**		**0.0518**	**0.0518**		**0.0477**	**0.0477**	**0.0000**	**94.1551**	**94.1551**	**0.0289**	**0.0000**	**94.7609**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0300e-003	2.4400e-003	0.0255	6.0000e-005	5.0100e-003	4.0000e-005	5.0500e-003	1.3300e-003	3.0000e-005	1.3700e-003	0.0000	4.2965	4.2965	2.2000e-004	0.0000	4.3011
Total	**2.0300e-003**	**2.4400e-003**	**0.0255**	**6.0000e-005**	**5.0100e-003**	**4.0000e-005**	**5.0500e-003**	**1.3300e-003**	**3.0000e-005**	**1.3700e-003**	**0.0000**	**4.2965**	**4.2965**	**2.2000e-004**	**0.0000**	**4.3011**

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2103	2.2397	1.8915	2.9100e-003		0.1225	0.1225		0.1127	0.1127	0.0000	265.8121	265.8121	0.0828	0.0000	267.5499
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2103**	**2.2397**	**1.8915**	**2.9100e-003**		**0.1225**	**0.1225**		**0.1127**	**0.1127**	**0.0000**	**265.8121**	**265.8121**	**0.0828**	**0.0000**	**267.5499**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-003	6.2900e-003	0.0658	1.7000e-004	0.0144	1.0000e-004	0.0145	3.8200e-003	1.0000e-004	3.9200e-003	0.0000	11.8571	11.8571	5.8000e-004	0.0000	11.8692
Total	**5.2000e-003**	**6.2900e-003**	**0.0658**	**1.7000e-004**	**0.0144**	**1.0000e-004**	**0.0145**	**3.8200e-003**	**1.0000e-004**	**3.9200e-003**	**0.0000**	**11.8571**	**11.8571**	**5.8000e-004**	**0.0000**	**11.8692**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1861	1.9491	1.8747	2.9100e-003		0.1056	0.1056		0.0972	0.0972	0.0000	261.5151	261.5151	0.0827	0.0000	263.2526
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1861**	**1.9491**	**1.8747**	**2.9100e-003**		**0.1056**	**0.1056**		**0.0972**	**0.0972**	**0.0000**	**261.5151**	**261.5151**	**0.0827**	**0.0000**	**263.2526**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7700e-003	5.7500e-003	0.0606	1.7000e-004	0.0144	1.0000e-004	0.0145	3.8200e-003	9.0000e-005	3.9200e-003	0.0000	11.3769	11.3769	5.4000e-004	0.0000	11.3881
Total	**4.7700e-003**	**5.7500e-003**	**0.0606**	**1.7000e-004**	**0.0144**	**1.0000e-004**	**0.0145**	**3.8200e-003**	**9.0000e-005**	**3.9200e-003**	**0.0000**	**11.3769**	**11.3769**	**5.4000e-004**	**0.0000**	**11.3881**

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1742	1.8058	1.8802	2.9200e-003		0.0968	0.0968		0.0891	0.0891	0.0000	256.7870	256.7870	0.0831	0.0000	258.5310
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1742**	**1.8058**	**1.8802**	**2.9200e-003**		**0.0968**	**0.0968**		**0.0891**	**0.0891**	**0.0000**	**256.7870**	**256.7870**	**0.0831**	**0.0000**	**258.5310**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4700e-003	5.3500e-003	0.0565	1.7000e-004	0.0144	1.0000e-004	0.0145	3.8400e-003	1.0000e-004	3.9300e-003	0.0000	10.9683	10.9683	5.1000e-004	0.0000	10.9790
Total	**4.4700e-003**	**5.3500e-003**	**0.0565**	**1.7000e-004**	**0.0144**	**1.0000e-004**	**0.0145**	**3.8400e-003**	**1.0000e-004**	**3.9300e-003**	**0.0000**	**10.9683**	**10.9683**	**5.1000e-004**	**0.0000**	**10.9790**

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1606	1.6522	1.8730	2.9100e-003		0.0868	0.0868		0.0799	0.0799	0.0000	255.7472	255.7472	0.0827	0.0000	257.4842
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1606**	**1.6522**	**1.8730**	**2.9100e-003**		**0.0868**	**0.0868**		**0.0799**	**0.0799**	**0.0000**	**255.7472**	**255.7472**	**0.0827**	**0.0000**	**257.4842**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-003	4.9700e-003	0.0528	1.7000e-004	0.0144	1.0000e-004	0.0145	3.8200e-003	1.0000e-004	3.9200e-003	0.0000	10.7415	10.7415	4.8000e-004	0.0000	10.7516
Total	**4.2000e-003**	**4.9700e-003**	**0.0528**	**1.7000e-004**	**0.0144**	**1.0000e-004**	**0.0145**	**3.8200e-003**	**1.0000e-004**	**3.9200e-003**	**0.0000**	**10.7415**	**10.7415**	**4.8000e-004**	**0.0000**	**10.7516**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1406	1.4184	1.8566	2.9000e-003		0.0725	0.0725		0.0667	0.0667	0.0000	254.8185	254.8185	0.0824	0.0000	256.5492
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1406**	**1.4184**	**1.8566**	**2.9000e-003**		**0.0725**	**0.0725**		**0.0667**	**0.0667**	**0.0000**	**254.8185**	**254.8185**	**0.0824**	**0.0000**	**256.5492**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9600e-003	4.6500e-003	0.0495	1.7000e-004	0.0143	1.0000e-004	0.0144	3.8100e-003	1.0000e-004	3.9000e-003	0.0000	10.5355	10.5355	4.6000e-004	0.0000	10.5451
Total	**3.9600e-003**	**4.6500e-003**	**0.0495**	**1.7000e-004**	**0.0143**	**1.0000e-004**	**0.0144**	**3.8100e-003**	**1.0000e-004**	**3.9000e-003**	**0.0000**	**10.5355**	**10.5355**	**4.6000e-004**	**0.0000**	**10.5451**

3.5 Paving - 2023

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	0.0780	0.7699	1.0999	1.7200e-003		0.0386	0.0386		0.0355	0.0355	0.0000	150.9259	150.9259	0.0488	0.0000	151.9509
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0780**	**0.7699**	**1.0999**	**1.7200e-003**		**0.0386**	**0.0386**		**0.0355**	**0.0355**	**0.0000**	**150.9259**	**150.9259**	**0.0488**	**0.0000**	**151.9509**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2300e-003	2.6000e-003	0.0277	1.0000e-004	8.4800e-003	6.0000e-005	8.5400e-003	2.2600e-003	6.0000e-005	2.3100e-003	0.0000	6.1533	6.1533	2.6000e-004	0.0000	6.1588
Total	**2.2300e-003**	**2.6000e-003**	**0.0277**	**1.0000e-004**	**8.4800e-003**	**6.0000e-005**	**8.5400e-003**	**2.2600e-003**	**6.0000e-005**	**2.3100e-003**	**0.0000**	**6.1533**	**6.1533**	**2.6000e-004**	**0.0000**	**6.1588**

3.6 Architectural Coating - 2017

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	0.2612					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0151	0.0994	0.0850	1.4000e-004		7.8900e-003	7.8900e-003		7.8900e-003	7.8900e-003	0.0000	11.6173	11.6173	1.2300e-003	0.0000	11.6431
Total	**0.2763**	**0.0994**	**0.0850**	**1.4000e-004**		**7.8900e-003**	**7.8900e-003**		**7.8900e-003**	**7.8900e-003**	**0.0000**	**11.6173**	**11.6173**	**1.2300e-003**	**0.0000**	**11.6431**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7900e-003	4.5500e-003	0.0477	1.1000e-004	9.3600e-003	7.0000e-005	9.4300e-003	2.4900e-003	6.0000e-005	2.5500e-003	0.0000	8.0202	8.0202	4.1000e-004	0.0000	8.0287
Total	**3.7900e-003**	**4.5500e-003**	**0.0477**	**1.1000e-004**	**9.3600e-003**	**7.0000e-005**	**9.4300e-003**	**2.4900e-003**	**6.0000e-005**	**2.5500e-003**	**0.0000**	**8.0202**	**8.0202**	**4.1000e-004**	**0.0000**	**8.0287**

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7491					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0390	0.2618	0.2420	3.9000e-004		0.0197	0.0197		0.0197	0.0197	0.0000	33.3200	33.3200	3.1700e-003	0.0000	33.3865
Total	**0.7881**	**0.2618**	**0.2420**	**3.9000e-004**		**0.0197**	**0.0197**		**0.0197**	**0.0197**	**0.0000**	**33.3200**	**33.3200**	**3.1700e-003**	**0.0000**	**33.3865**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.7000e-003	0.0117	0.1228	3.2000e-004	0.0268	1.9000e-004	0.0270	7.1400e-003	1.8000e-004	7.3200e-003	0.0000	22.1333	22.1333	1.0700e-003	0.0000	22.1559
Total	**9.7000e-003**	**0.0117**	**0.1228**	**3.2000e-004**	**0.0268**	**1.9000e-004**	**0.0270**	**7.1400e-003**	**1.8000e-004**	**7.3200e-003**	**0.0000**	**22.1333**	**22.1333**	**1.0700e-003**	**0.0000**	**22.1559**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7491					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.2395	0.2403	3.9000e-004		0.0168	0.0168		0.0168	0.0168	0.0000	33.3200	33.3200	2.8100e-003	0.0000	33.3791
Total	**0.7839**	**0.2395**	**0.2403**	**3.9000e-004**		**0.0168**	**0.0168**		**0.0168**	**0.0168**	**0.0000**	**33.3200**	**33.3200**	**2.8100e-003**	**0.0000**	**33.3791**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.9000e-003	0.0107	0.1131	3.2000e-004	0.0268	1.9000e-004	0.0270	7.1400e-003	1.8000e-004	7.3100e-003	0.0000	21.2368	21.2368	1.0000e-003	0.0000	21.2578
Total	**8.9000e-003**	**0.0107**	**0.1131**	**3.2000e-004**	**0.0268**	**1.9000e-004**	**0.0270**	**7.1400e-003**	**1.8000e-004**	**7.3100e-003**	**0.0000**	**21.2368**	**21.2368**	**1.0000e-003**	**0.0000**	**21.2578**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7520					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.2206	0.2399	3.9000e-004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e-003	0.0000	33.5020
Total	**0.7837**	**0.2206**	**0.2399**	**3.9000e-004**		**0.0145**	**0.0145**		**0.0145**	**0.0145**	**0.0000**	**33.4476**	**33.4476**	**2.5900e-003**	**0.0000**	**33.5020**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3400e-003	9.9800e-003	0.1055	3.2000e-004	0.0269	1.9000e-004	0.0271	7.1600e-003	1.8000e-004	7.3400e-003	0.0000	20.4742	20.4742	9.5000e-004	0.0000	20.4942
Total	**8.3400e-003**	**9.9800e-003**	**0.1055**	**3.2000e-004**	**0.0269**	**1.9000e-004**	**0.0271**	**7.1600e-003**	**1.8000e-004**	**7.3400e-003**	**0.0000**	**20.4742**	**20.4742**	**9.5000e-004**	**0.0000**	**20.4942**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7491					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0286	0.1993	0.2372	3.9000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	33.3200	33.3200	2.2900e-003	0.0000	33.3680
Total	**0.7777**	**0.1993**	**0.2372**	**3.9000e-004**		**0.0123**	**0.0123**		**0.0123**	**0.0123**	**0.0000**	**33.3200**	**33.3200**	**2.2900e-003**	**0.0000**	**33.3680**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8400e-003	9.2900e-003	0.0985	3.2000e-004	0.0268	1.9000e-004	0.0270	7.1400e-003	1.8000e-004	7.3200e-003	0.0000	20.0508	20.0508	9.0000e-004	0.0000	20.0697
Total	**7.8400e-003**	**9.2900e-003**	**0.0985**	**3.2000e-004**	**0.0268**	**1.9000e-004**	**0.0270**	**7.1400e-003**	**1.8000e-004**	**7.3200e-003**	**0.0000**	**20.0508**	**20.0508**	**9.0000e-004**	**0.0000**	**20.0697**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7463					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.1831	0.2358	3.9000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	33.1923	33.1923	2.1600e-003	0.0000	33.2377
Total	**0.7729**	**0.1831**	**0.2358**	**3.9000e-004**		**0.0106**	**0.0106**		**0.0106**	**0.0106**	**0.0000**	**33.1923**	**33.1923**	**2.1600e-003**	**0.0000**	**33.2377**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-003	8.6900e-003	0.0924	3.2000e-004	0.0267	1.9000e-004	0.0269	7.1100e-003	1.8000e-004	7.2900e-003	0.0000	19.6663	19.6663	8.6000e-004	0.0000	19.6843
Total	**7.4000e-003**	**8.6900e-003**	**0.0924**	**3.2000e-004**	**0.0267**	**1.9000e-004**	**0.0269**	**7.1100e-003**	**1.8000e-004**	**7.2900e-003**	**0.0000**	**19.6663**	**19.6663**	**8.6000e-004**	**0.0000**	**19.6843**

3.6 Architectural Coating - 2023

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	0.4420					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0148	0.1003	0.1395	2.3000e-004		5.4500e-003	5.4500e-003		5.4500e-003	5.4500e-003	0.0000	19.6601	19.6601	1.1800e-003	0.0000	19.6848
Total	**0.4568**	**0.1003**	**0.1395**	**2.3000e-004**		**5.4500e-003**	**5.4500e-003**		**5.4500e-003**	**5.4500e-003**	**0.0000**	**19.6601**	**19.6601**	**1.1800e-003**	**0.0000**	**19.6848**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1700e-003	4.8600e-003	0.0518	1.9000e-004	0.0158	1.1000e-004	0.0160	4.2100e-003	1.1000e-004	4.3200e-003	0.0000	11.4861	11.4861	4.9000e-004	0.0000	11.4964
Total	**4.1700e-003**	**4.8600e-003**	**0.0518**	**1.9000e-004**	**0.0158**	**1.1000e-004**	**0.0160**	**4.2100e-003**	**1.1000e-004**	**4.3200e-003**	**0.0000**	**11.4861**	**11.4861**	**4.9000e-004**	**0.0000**	**11.4964**

White Rock Springs Ranch - Project Scenario

Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	395.00	Dwelling Unit	138.90	711,000.00	1055

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.5	**Precipitation Freq (Days)**	58
Climate Zone	6			**Operational Year**	2020
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	449.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor per SMAQMD

Land Use - White Rock Springs Ranch = 395 units on 138.9 acres

Construction Phase - No construction modeled

Vehicle Trips - Trip generation ratio per Kimley Horn Traffic Engineers Memorandum

Energy Use - glitch

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	128.25	138.90
tblProjectCharacteristics	CO2IntensityFactor	590.31	449.44
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	ST_TR	10.08	9.32
tblVehicleTrips	SU_TR	8.77	9.32
tblVehicleTrips	WD_TR	9.57	9.32

2.0 Emissions Summary

2.1 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	3.3462	0.0473	4.0870	2.2000e-004		0.0225	0.0225		0.0225	0.0225	0.0000	6.6540	6.6540	6.4900e-003	0.0000	6.7903
Energy	0.0685	0.5852	0.2490	3.7400e-003		0.0473	0.0473		0.0473	0.0473	0.0000	1,276.6115	1,276.6115	0.0516	0.0204	1,284.0260
Mobile	1.8072	3.9413	19.0123	0.0502	3.5169	0.0588	3.5758	0.9422	0.0543	0.9965	0.0000	3,469.0357	3,469.0357	0.1319	0.0000	3,471.8051
Waste						0.0000	0.0000		0.0000	0.0000	77.0960	0.0000	77.0960	4.5562	0.0000	172.7770
Water						0.0000	0.0000		0.0000	0.0000	9.1054	37.7183	46.8236	0.0338	0.0203	53.8274
Total	**5.2218**	**4.5738**	**23.3483**	**0.0541**	**3.5169**	**0.1286**	**3.6455**	**0.9422**	**0.1241**	**1.0663**	**86.2014**	**4,790.0194**	**4,876.2208**	**4.7800**	**0.0407**	**4,989.2257**

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	3.3094	0.0378	3.1679	1.5000e-004		0.0168	0.0168		0.0168	0.0168	0.0000	4.8080	4.8080	4.6200e-003	0.0000	4.9050
Energy	0.0489	0.4182	0.1780	2.6700e-003		0.0338	0.0338		0.0338	0.0338	0.0000	1,062.6233	1,062.6233	0.0466	0.0166	1,068.7477
Mobile	1.7672	3.6948	18.0087	0.0464	3.2455	0.0548	3.3002	0.8695	0.0505	0.9200	0.0000	3,210.1796	3,210.1796	0.1228	0.0000	3,212.7581
Waste						0.0000	0.0000		0.0000	0.0000	77.0960	0.0000	77.0960	4.5562	0.0000	172.7770
Water						0.0000	0.0000		0.0000	0.0000	7.2843	31.7838	39.0681	0.0272	0.0163	44.6880
Total	**5.1255**	**4.1508**	**21.3545**	**0.0492**	**3.2455**	**0.1054**	**3.3509**	**0.8695**	**0.1012**	**0.9706**	**84.3803**	**4,309.3947**	**4,393.7750**	**4.7575**	**0.0329**	**4,503.8759**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**1.84**	**9.25**	**8.54**	**9.02**	**7.72**	**18.06**	**8.08**	**7.72**	**18.47**	**8.97**	**2.11**	**10.03**	**9.89**	**0.47**	**19.23**	**9.73**

3.0 Operational Detail - Mobile

3.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Walkability Design

Increase Transit Accessibility

Improve Pedestrian Network

Expand Transit Network

Increase Transit Frequency

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7672	3.6948	18.0087	0.0464	3.2455	0.0548	3.3002	0.8695	0.0505	0.9200	0.0000	3,210.1796	3,210.1796	0.1228	0.0000	3,212.7581
Unmitigated	1.8072	3.9413	19.0123	0.0502	3.5169	0.0588	3.5758	0.9422	0.0543	0.9965	0.0000	3,469.0357	3,469.0357	0.1319	0.0000	3,471.8051

3.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	3,681.40	3,681.40	3681.40	9,446,874	8,717,669
Total	3,681.40	3,681.40	3,681.40	9,446,874	8,717,669

3.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.503605	0.067800	0.178973	0.146934	0.044621	0.006359	0.021238	0.016884	0.002315	0.002275	0.006260	0.000554	0.002182

4.0 Energy Detail

Historical Energy Use: N

4.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	578.3303	578.3303	0.0373	7.7200e-003	581.5073
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	598.8939	598.8939	0.0386	8.0000e-003	602.1839
NaturalGas Mitigated	0.0489	0.4182	0.1780	2.6700e-003		0.0338	0.0338		0.0338	0.0338	0.0000	484.2931	484.2931	9.2800e-003	8.8800e-003	487.2404
NaturalGas Unmitigated	0.0685	0.5852	0.2490	3.7400e-003		0.0473	0.0473		0.0473	0.0473	0.0000	677.7177	677.7177	0.0130	0.0124	681.8421

4.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.26999e+007	0.0685	0.5852	0.2490	3.7400e-003		0.0473	0.0473		0.0473	0.0473	0.0000	677.7177	677.7177	0.0130	0.0124	681.8421
Total		**0.0685**	**0.5852**	**0.2490**	**3.7400e-003**		**0.0473**	**0.0473**		**0.0473**	**0.0473**	**0.0000**	**677.7177**	**677.7177**	**0.0130**	**0.0124**	**681.8421**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	9.07531e+006	0.0489	0.4182	0.1780	2.6700e-003		0.0338	0.0338		0.0338	0.0338	0.0000	484.2931	484.2931	9.2800e-003	8.8800e-003	487.2404
Total		**0.0489**	**0.4182**	**0.1780**	**2.6700e-003**		**0.0338**	**0.0338**		**0.0338**	**0.0338**	**0.0000**	**484.2931**	**484.2931**	**9.2800e-003**	**8.8800e-003**	**487.2404**

4.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	2.93773e+006	598.8939	0.0386	8.0000e-003	602.1839
Total		**598.8939**	**0.0386**	**8.0000e-003**	**602.1839**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	2.83686e+006	578.3303	0.0373	7.7200e-003	581.5073
Total		**578.3303**	**0.0373**	**7.7200e-003**	**581.5073**

5.0 Area Detail

5.1 Mitigation Measures Area

Use Electric Lawnmower

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.3094	0.0378	3.1679	1.5000e-004		0.0168	0.0168		0.0168	0.0168	0.0000	4.8080	4.8080	4.6200e-003	0.0000	4.9050
Unmitigated	3.3462	0.0473	4.0870	2.2000e-004		0.0225	0.0225		0.0225	0.0225	0.0000	6.6540	6.6540	6.4900e-003	0.0000	6.7903

5.2 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	0.4449					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7768					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1245	0.0473	4.0870	2.2000e-004		0.0225	0.0225		0.0225	0.0225	0.0000	6.6540	6.6540	6.4900e-003	0.0000	6.7903
Total	**3.3462**	**0.0473**	**4.0870**	**2.2000e-004**		**0.0225**	**0.0225**		**0.0225**	**0.0225**	**0.0000**	**6.6540**	**6.6540**	**6.4900e-003**	**0.0000**	**6.7903**

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	0.4449					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7768					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0877	0.0378	3.1679	1.5000e-004		0.0168	0.0168		0.0168	0.0168	0.0000	4.8080	4.8080	4.6200e-003	0.0000	4.9050
Total	**3.3094**	**0.0378**	**3.1679**	**1.5000e-004**		**0.0168**	**0.0168**		**0.0168**	**0.0168**	**0.0000**	**4.8080**	**4.8080**	**4.6200e-003**	**0.0000**	**4.9050**

6.0 Water Detail

6.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	39.0681	0.0272	0.0163	44.6880
Unmitigated	46.8236	0.0338	0.0203	53.8274

6.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	25.7358 / 16.2248	46.8236	0.0338	0.0203	53.8274
Total		**46.8236**	**0.0338**	**0.0203**	**53.8274**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	20.5887 / 15.2351	39.0681	0.0272	0.0163	44.6880
Total		**39.0681**	**0.0272**	**0.0163**	**44.6880**

7.0 Waste Detail

7.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	77.0960	4.5562	0.0000	172.7770
Unmitigated	77.0960	4.5562	0.0000	172.7770

7.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	379.8	77.0960	4.5562	0.0000	172.7770
Total		**77.0960**	**4.5562**	**0.0000**	**172.7770**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	379.8	77.0960	4.5562	0.0000	172.7770
Total		**77.0960**	**4.5562**	**0.0000**	**172.7770**

White Rock Springs Ranch - No Action Taken Scenario

Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	395.00	Dwelling Unit	138.90	711,000.00	1055

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.5	**Precipitation Freq (Days)**	58
Climate Zone	6			**Operational Year**	2020
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - White Rock Springs Ranch = 395 units on 138.9 acres

Construction Phase - No construction modeled

Vehicle Trips - Trip generation ratio per Kimley Horn Traffic Engineers Memorandum

Vechicle Emission Factors - NAT emissions factors per SMAQMD

Woodstoves - Wood fireplaces assumed

Energy Use - NAT - using historical data

Vechicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	128.25	138.90
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleEF	HHD	527.75	586.39
tblVehicleEF	HHD	1,488.02	1,653.35
tblVehicleEF	HHD	51.56	57.29
tblVehicleEF	LDA	230.00	338.72
tblVehicleEF	LDA	51.88	73.64
tblVehicleEF	LDT1	277.88	391.37
tblVehicleEF	LDT1	62.78	84.63
tblVehicleEF	LDT2	343.33	460.98
tblVehicleEF	LDT2	76.90	100.47
tblVehicleEF	LHD1	8.04	8.93
tblVehicleEF	LHD1	726.35	807.06
tblVehicleEF	LHD1	35.55	39.50
tblVehicleEF	LHD2	8.81	9.79
tblVehicleEF	LHD2	626.39	695.99
tblVehicleEF	LHD2	22.70	25.23
tblVehicleEF	MCY	137.22	152.46
tblVehicleEF	MCY	38.62	42.91
tblVehicleEF	MDV	461.73	587.40
tblVehicleEF	MDV	102.33	127.20
tblVehicleEF	MH	680.71	756.34
tblVehicleEF	MH	28.28	31.43
tblVehicleEF	MHD	568.20	631.33
tblVehicleEF	MHD	983.01	1,092.23
tblVehicleEF	MHD	50.03	55.58
tblVehicleEF	OBUS	534.88	594.31
tblVehicleEF	OBUS	1,033.73	1,148.59
tblVehicleEF	OBUS	32.73	36.37

tblVehicleEF	SBUS	547.00	607.77
tblVehicleEF	SBUS	995.42	1,106.02
tblVehicleEF	SBUS	115.30	128.11
tblVehicleEF	UBUS	1,653.59	1,837.33
tblVehicleEF	UBUS	47.00	52.22
tblVehicleTrips	ST_TR	10.08	9.32
tblVehicleTrips	SU_TR	8.77	9.32
tblVehicleTrips	WD_TR	9.57	9.32

2.0 Emissions Summary

2.1 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	3.3462	0.0473	4.0870	2.2000e-004		0.0225	0.0225		0.0225	0.0225	0.0000	6.6540	6.6540	6.4900e-003	0.0000	6.7903
Energy	0.0747	0.6382	0.2716	4.0700e-003		0.0516	0.0516		0.0516	0.0516	0.0000	1,548.3914	1,548.3914	0.0539	0.0218	1,556.2743
Mobile	1.8072	3.9413	19.0123	0.0502	3.5169	0.0588	3.5758	0.9422	0.0543	0.9965	0.0000	4,558.2508	4,558.2508	0.1319	0.0000	4,561.0203
Waste						0.0000	0.0000		0.0000	0.0000	77.0960	0.0000	77.0960	4.5562	0.0000	172.7770
Water						0.0000	0.0000		0.0000	0.0000	9.1054	49.5405	58.6458	0.0338	0.0203	65.6496
Total	**5.2280**	**4.6268**	**23.3709**	**0.0544**	**3.5169**	**0.1329**	**3.6498**	**0.9422**	**0.1284**	**1.0706**	**86.2014**	**6,162.8366**	**6,249.0380**	**4.7823**	**0.0421**	**6,362.5115**

3.0 Operational Detail - Mobile

3.1 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					
Unmitigated	1.8072	3.9413	19.0123	0.0502	3.5169	0.0588	3.5758	0.9422	0.0543	0.9965	0.0000	4,558.2508	4,558.2508	0.1319	0.0000	4,561.0203

3.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	3,681.40	3,681.40	3681.40	9,446,874	9,446,874
Total	3,681.40	3,681.40	3,681.40	9,446,874	9,446,874

3.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.503605	0.067800	0.178973	0.146934	0.044621	0.006359	0.021238	0.016884	0.002315	0.002275	0.006260	0.000554	0.002182

4.0 Energy Detail

Historical Energy Use: Y

4.1 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 Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	809.2691	809.2691	0.0398	8.2300e-003	812.6539
NaturalGas Unmitigated	0.0747	0.6382	0.2716	4.0700e-003		0.0516	0.0516		0.0516	0.0516	0.0000	739.1222	739.1222	0.0142	0.0136	743.6204

4.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.38506e+007	0.0747	0.6382	0.2716	4.0700e-003		0.0516	0.0516		0.0516	0.0516	0.0000	739.1222	739.1222	0.0142	0.0136	743.6204
Total		**0.0747**	**0.6382**	**0.2716**	**4.0700e-003**		**0.0516**	**0.0516**		**0.0516**	**0.0516**	**0.0000**	**739.1222**	**739.1222**	**0.0142**	**0.0136**	**743.6204**

4.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	3.02237e+006	809.2691	0.0398	8.2300e-003	812.6539
Total		**809.2691**	**0.0398**	**8.2300e-003**	**812.6539**

5.0 Area Detail

5.1 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					
Unmitigated	3.3462	0.0473	4.0870	2.2000e-004		0.0225	0.0225		0.0225	0.0225	0.0000	6.6540	6.6540	6.4900e-003	0.0000	6.7903

5.2 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	0.4449					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7768					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1245	0.0473	4.0870	2.2000e-004		0.0225	0.0225		0.0225	0.0225	0.0000	6.6540	6.6540	6.4900e-003	0.0000	6.7903
Total	**3.3462**	**0.0473**	**4.0870**	**2.2000e-004**		**0.0225**	**0.0225**		**0.0225**	**0.0225**	**0.0000**	**6.6540**	**6.6540**	**6.4900e-003**	**0.0000**	**6.7903**

6.0 Water Detail

6.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	58.6458	0.0338	0.0203	65.6496

6.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	25.7358 / 16.2248	58.6458	0.0338	0.0203	65.6496
Total		**58.6458**	**0.0338**	**0.0203**	**65.6496**

7.0 Waste Detail

7.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	77.0960	4.5562	0.0000	172.7770

7.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	379.8	77.0960	4.5562	0.0000	172.7770
Total		**77.0960**	**4.5562**	**0.0000**	**172.7770**