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# **Appendix B**

## Air Quality Technical Report



# WILEY CANYON MIXED USE PROJECT

## Air Quality Technical Report

Prepared for  
City of Santa Clarita  
23920 Valencia Boulevard, Suite 300  
Santa Clarita, CA 91355

January 2024





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Prepared for  
City of Santa Clarita  
23920 Valencia Boulevard, Suite 300  
Santa Clarita, CA 91355

January 2024

626 Wilshire Boulevard  
Suite 1100  
Los Angeles, CA 90017  
213.599.4300  
esassoc.com



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# WILEY CANYON MIXED USE PROJECT

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## Air Quality Technical Report

### Executive Summary

The Project is the development of a mixed-use facility on an approximately 32-acre site located on Wiley Canyon Road between Lyons Avenue and Calgrove, Boulevard, immediately adjacent to Interstate-5 (I-5) on the west. The Project would consist of 596 residential units; including a 217-unit Senior Living Facility, 379 multi-family residential units, and up to 10,886 square feet of commercial. The Project would also contain approximately 15 acres of open space, recreation, and drainage areas. The area surrounding the Project Site includes a small commercial area to the south, residential uses on the north and east, and I-5 on the west.

This report summarizes the potential for the Project to conflict with an applicable air quality plan, to result in a cumulatively net increase of non-attainment criteria pollutant emissions, to expose sensitive receptors to substantial pollutant concentrations, or to generate other emissions (such as odors) adversely affecting a substantial number of people. The findings are as follows:

- The Project would not conflict with or obstruct implementation of the applicable air quality policies set forth by the South Coast Air Quality Management District (SCAQMD) Air Quality Management Plan.
- The incremental increase in emissions from construction and operation of the Project would not exceed the regional daily emission thresholds set forth by the SCAQMD. Thus, the Project would not result in a cumulatively considerable net increase of any criteria pollutant for which the region is in non-attainment under an applicable federal or state ambient air quality standard.
- The incremental increase in on-site emissions from construction and operation of the Project would not exceed the localized significance thresholds set forth by the SCAQMD. Thus, the Project would not result in a localized violation of applicable air quality standards or expose off-site receptors to substantial levels of regulated air pollutants.
- Emissions from the increase in traffic due to operation of the Project would not have a significant impact upon 1-hour or 8-hour local carbon monoxide (CO) concentrations due to mobile source emissions.
- Project construction and operations would not expose off-site receptors to significant levels of toxic air contaminants and would result in less than significant health risk impacts.
- Project construction and operations would not result in significant levels of odors or other emissions.
- The Project would result in a less than significant cumulative air quality impacts during construction and operation of the Project.

## 1.0 Introduction

The Wiley Canyon Mixed-Use Project Site is regionally located in the northern foothills of the Santa Susana Mountains in unincorporated Los Angeles County (County), at the westerly perimeter of the Santa Clarita Valley. Locally, the Project Site is immediately east of Interstate 5 (I-5), north of Calgrove Boulevard, and south of Hawkbryn Avenue. The Project Site consists of two parcels that are currently vacant. A portion of the South Fork of the Santa Clara River runs along the eastern boundary of the property with the north end of the drainage being channelized. The City of Santa Clarita General Plan Land Use Designation of Mixed-Use Neighborhood (MX-N) encompasses the entire property and is included as the Calgrove Corridor/Smiser Ranch Special Development Area. The Project Site has no corresponding zone in the County, and currently has a City zoning of Mixed Use Overlay (MU).

The Project Site is a total of approximately 32 acres of which 18 acres will be impacted by the proposed mixed-use development footprint and the remaining approximately 15 acres will be retained for open space, recreation, and drainage purposes. The Project will consist of up to 591 residential units; including a 217-unit Senior Living Facility, and up to 379 multi-family residential units, and up to 10,886 square feet of commercial uses. The area surrounding the Project Site includes a small commercial area to the south, residential uses on the north and east, and I-5 on the west.

This Air Quality Technical Report evaluates the Project's potential air quality impacts, as well as its potential cumulative air quality impacts, generated by construction and operation of the Project. This report estimates the air pollutant emissions generated by Project construction and operation, and whether Project emissions would conflict with or obstruct implementation of the applicable air quality plan; violate any air quality standard or contribute substantially to an existing or projected air quality violation; result in a cumulatively considerable net increase of any criteria pollutant in non-attainment of Federal or State ambient air quality standard; expose sensitive receptors to substantial pollutant concentrations; or create objectionable odors affecting a substantial number of people.

## 2.0 Environmental Setting

### 2.1 Air Quality Background

#### 2.1.1 Criteria Pollutants

Certain air pollutants have been recognized to cause notable health problems and consequential damage to the environment either directly or in reaction with other pollutants due to their presence in elevated concentrations in the atmosphere. Such pollutants have been identified and regulated as part of the overall endeavor to prevent further deterioration and facilitate improvement in air quality. The following pollutants are regulated by the United States Environmental Protection Agency (USEPA) and are subject to emissions control requirements adopted by federal, state and local regulatory agencies. These pollutants are referred to as "criteria air pollutants" as a result of the specific standards, or criteria, which have been adopted for them. A description of the health effects of these criteria air pollutants are provided below.

**Ozone (O<sub>3</sub>):** Ozone is a secondary pollutant formed by the chemical reaction of volatile organic compounds (VOCs) and nitrogen oxides (NO<sub>x</sub>) in the presence of sunlight under favorable meteorological conditions, such as high temperature and stagnation episodes. Ozone concentrations are generally highest during the summer months when direct sunlight, light wind, and warm temperature conditions are favorable. According to the USEPA, ozone can cause the muscles in the airways to constrict potentially leading to wheezing and shortness of breath.<sup>1</sup> Ozone can make it more difficult to breathe deeply and vigorously; cause shortness of breath and pain when taking a deep breath; cause coughing and sore or scratchy throat; inflame and damage the airways; aggravate lung diseases, such as asthma, emphysema, and chronic bronchitis; increase the frequency of asthma attacks; make the lungs more susceptible to infection; continue to damage the lungs even when the symptoms have disappeared; and cause chronic obstructive pulmonary disease.<sup>2</sup> Long-term exposure to ozone is linked to aggravation of asthma, and is likely to be one of many causes of asthma development and long-term exposures to higher concentrations of ozone may also be linked to permanent lung damage, such as abnormal lung development in children.<sup>3</sup> According to the California Air Resources Board (CARB), inhalation of ozone causes inflammation and irritation of the tissues lining human airways, causing and worsening a variety of symptoms and exposure to ozone can reduce the volume of air that the lungs breathe in and cause shortness of breath.<sup>4</sup> The USEPA states that people most at risk from breathing air containing ozone include people with asthma, children, older adults, and people, who are active outdoors, especially outdoor workers.<sup>5</sup> Children are at greatest risk from exposure to ozone because their lungs are still developing, and they are more likely to be active outdoors when ozone levels are high, which increases their exposure.<sup>6</sup> According to CARB, studies show that children are no more or less likely to suffer harmful effects than adults; however, children and teens may be more susceptible to ozone and other pollutants because they spend nearly twice as much time outdoors and engaged in vigorous activities compared to adults. Children breathe more rapidly than adults and inhale more pollution per pound of their body weight than adults and are less likely than adults to notice their own symptoms and avoid harmful exposures. Further research may be able to better distinguish between health effects in children and adults.

**Volatile Organic Compounds (VOCs):** VOCs are organic chemical compounds of carbon and are not “criteria” pollutants themselves; however, they contribute with NO<sub>x</sub> to form ozone, and are regulated to prevent the formation of ozone.<sup>7</sup> According to CARB, some VOCs are highly reactive and play a critical role in the formation of ozone, other VOCs have adverse health effects, and, in some cases, VOCs can be both highly reactive and have adverse health effects.<sup>8</sup>

<sup>1</sup> United States Environmental Protection Agency (USEPA), Health Effects of Ozone Pollution, <https://www.epa.gov/ground-level-ozone-pollution/health-effects-ozone-pollution>. Accessed December 6, 2021.

<sup>2</sup> USEPA, Health Effects of Ozone Pollution.

<sup>3</sup> USEPA, Health Effects of Ozone Pollution.

<sup>4</sup> California Air Resources Board (CARB), Ozone & Health, Health Effects of Ozone, <https://ww2.arb.ca.gov/resources/ozone-and-health>. Accessed December 6, 2021.

<sup>5</sup> USEPA, Health Effects of Ozone Pollution.

<sup>6</sup> USEPA, Health Effects of Ozone Pollution.

<sup>7</sup> USEPA, Technical Overview of Volatile Organic Compounds, <https://www.epa.gov/indoor-air-quality-iaq/technical-overview-volatile-organic-compounds>. Accessed December 6, 2021.

<sup>8</sup> CARB, 2005. Air Quality and Land Use Handbook: A Community Health Perspective, April. Page A-4. ARB’s Air Quality and Land Use Handbook (ca.gov). Accessed December 6, 2021.

VOCs are typically formed from combustion of fuels and/or released through evaporation of organic liquids, internal combustion associated with motor vehicle usage, and consumer products (e.g., architectural coatings, etc.).<sup>9</sup>

**Nitrogen Dioxide (NO<sub>2</sub>) and Nitrogen Oxides (NO<sub>x</sub>):** NO<sub>x</sub> is a term that refers to a group of compounds containing nitrogen and oxygen. The primary compounds of air quality concern include NO<sub>2</sub> and nitric oxide (NO). Ambient air quality standards have been promulgated for NO<sub>2</sub>, which is a reddish-brown, reactive gas. The principal form of NO<sub>x</sub> produced by combustion is NO, but NO reacts quickly in the atmosphere to form NO<sub>2</sub>, creating the mixture of NO and NO<sub>2</sub> referred to as NO<sub>x</sub>.<sup>10</sup> Major sources of NO<sub>x</sub> include emissions from cars, trucks and buses, power plants, and off-road equipment.<sup>11</sup> The terms NO<sub>x</sub> and NO<sub>2</sub> are sometimes used interchangeably. However, the term NO<sub>x</sub> is typically used when discussing emissions, usually from combustion-related activities, and the term NO<sub>2</sub> is typically used when discussing ambient air quality standards. Where NO<sub>x</sub> emissions are discussed in the context of the thresholds of significance or impact analyses, the discussions are based on the conservative assumption that all NO<sub>x</sub> emissions would oxidize in the atmosphere to form NO<sub>2</sub>. According to the USEPA, short-term exposures to NO<sub>2</sub> can potentially aggravate respiratory diseases, particularly asthma, leading to respiratory symptoms (such as coughing, wheezing or difficulty breathing), hospital admissions and visits to emergency rooms, while longer exposures to elevated concentrations of NO<sub>2</sub> may contribute to the development of asthma and potentially increase susceptibility to respiratory infections.<sup>12</sup> According to CARB, controlled human exposure studies show that NO<sub>2</sub> exposure can intensify responses to allergens in allergic asthmatics.<sup>13</sup> In addition, a number of epidemiological studies have demonstrated associations between NO<sub>2</sub> exposure and premature death, cardiopulmonary effects, decreased lung function growth in children, respiratory symptoms, emergency room visits for asthma, and intensified allergic responses. Infants and children are particularly at risk from exposure to NO<sub>2</sub> because they have disproportionately higher exposure to NO<sub>2</sub> than adults due to their greater breathing rate for their body weight and their typically greater outdoor exposure duration, while in adults, the greatest risk is to people who have chronic respiratory diseases, such as asthma and chronic obstructive pulmonary disease. CARB states that much of the information on distribution in air, human exposure and dose, and health effects is specifically for NO<sub>2</sub> and there is only limited information for NO and NO<sub>x</sub>, as well as large uncertainty in relating health effects to NO or NO<sub>x</sub> exposure.<sup>14</sup>

**Carbon Monoxide (CO):** CO is primarily emitted from combustion processes and motor vehicles due to the incomplete combustion of fuel, such as natural gas, gasoline, or wood, with the majority of outdoor CO emissions from mobile sources.<sup>15</sup> According to the USEPA,

<sup>9</sup> CARB, 2005. Air Quality and Land Use Handbook: A Community Health Perspective.

<sup>10</sup> CARB, Nitrogen Dioxide & Health, Nitrogen Dioxide & Health | California Air Resources Board. Accessed December 6, 2021.

<sup>11</sup> USEPA, Nitrogen Dioxide (NO<sub>2</sub>) Pollution, <https://www.epa.gov/no2-pollution/basic-information-about-no2>. Accessed December 6, 2021.

<sup>12</sup> USEPA, Nitrogen Dioxide (NO<sub>2</sub>) Pollution.

<sup>13</sup> CARB, Nitrogen Dioxide & Health.

<sup>14</sup> CARB, Nitrogen Dioxide & Health.

<sup>15</sup> CARB, Carbon Monoxide & Health, <https://ww2.arb.ca.gov/resources/carbon-monoxide-and-health>. Accessed December 6, 2021.

breathing air with a high concentration of CO reduces the amount of oxygen that can be transported in the blood stream to critical organs like the heart and brain and at very high levels, which are possible indoors or in other enclosed environments, CO can cause dizziness, confusion, unconsciousness and death.<sup>16</sup> Very high levels of CO are not likely to occur outdoors; however, when CO levels are elevated outdoors, they can be of particular concern for people with some types of heart disease since these people already have a reduced ability for getting oxygenated blood to their hearts and are especially vulnerable to the effects of CO when exercising or under increased stress.<sup>17</sup> In these situations, short-term exposure to elevated CO may result in reduced oxygen to the heart accompanied by chest pain also known as angina.<sup>18</sup> According to CARB, the most common effects of CO exposure are fatigue, headaches, confusion, and dizziness due to inadequate oxygen delivery to the brain. For people with cardiovascular disease, short-term CO exposure can further reduce their body's already compromised ability to respond to the increased oxygen demands of exercise, exertion, or stress; inadequate oxygen delivery to the heart muscle leads to chest pain and decreased exercise tolerance. Unborn babies, infants, elderly people, and people with anemia or with a history of heart or respiratory disease are most likely to experience health effects with exposure to elevated levels of CO.<sup>19</sup>

**Sulfur Dioxide (SO<sub>2</sub>):** According to the USEPA, the largest source of SO<sub>2</sub> emissions in the atmosphere is the burning of fossil fuels by power plants and other industrial facilities, while smaller sources of SO<sub>2</sub> emissions include industrial processes, such as extracting metal from ore; natural sources, such as volcanoes; and locomotives, ships and other vehicles and heavy equipment that burn fuel with a high sulfur content.<sup>20</sup> In 2006, California phased-in the ultra-low-sulfur diesel regulation limiting vehicle diesel fuel to a sulfur content not exceeding 15 parts per million, down from the previous requirement of 500 parts per million, substantially reducing emissions of sulfur from diesel combustion.<sup>21</sup> According to the USEPA, short-term exposures to SO<sub>2</sub> can harm the human respiratory system and make breathing difficult.<sup>22</sup> According to CARB, health effects at levels near the State one-hour standard are those of asthma exacerbation, including bronchoconstriction accompanied by symptoms of respiratory irritation, such as wheezing, shortness of breath and chest tightness, especially during exercise or physical activity, and exposure at elevated levels of SO<sub>2</sub> (above one part per million (ppm)) results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality.<sup>23</sup> Children, the elderly, and those with asthma, cardiovascular disease, or chronic

<sup>16</sup> USEPA, Carbon Monoxide (CO) Pollution in Outdoor Air, <https://www.epa.gov/co-pollution/basic-information-about-carbon-monoxide-co-outdoor-air-pollution>. Accessed December 6, 2021.

<sup>17</sup> USEPA, Carbon Monoxide (CO) Pollution in Outdoor Air.

<sup>18</sup> USEPA, Carbon Monoxide (CO) Pollution in Outdoor Air.

<sup>19</sup> CARB, Carbon Monoxide & Health.

<sup>20</sup> USEPA, Sulfur Dioxide (SO<sub>2</sub>) Pollution, <https://www.epa.gov/so2-pollution/sulfur-dioxide-basics>. Accessed December 6, 2021.

<sup>21</sup> CARB, Final Regulation Order, Amendments to the California Diesel Fuel Regulations, Amend Section 2281, Title 13, California Code of Regulations, approved July 15, 2004. Rulemaking: July 24, 2003, Final Regulation Order (ca.gov). Accessed December 6, 2021.

<sup>22</sup> USEPA, Sulfur Dioxide (SO<sub>2</sub>) Pollution.

<sup>23</sup> CARB, Sulfur Dioxide & Health, <https://ww2.arb.ca.gov/resources/sulfur-dioxide-and-health>. Accessed December 6, 2021.

lung disease (such as bronchitis or emphysema) are most likely to experience the adverse effects of SO<sub>2</sub>.<sup>24,25</sup>

**Particulate Matter (PM10 and PM2.5):** Particulate matter air pollution is a mixture of solid particles and liquid droplets found in the air.<sup>26</sup> Some particles, such as dust, dirt, soot, or smoke, are large or dark enough to be seen with the naked eye, while other particles are so small they can only be detected using an electron microscope. Particles are defined by their diameter for air quality regulatory purposes: inhalable particles with diameters that are generally ten micrometers (µm) and smaller (PM10); and fine inhalable particles with diameters that are generally 2.5 µm and smaller (PM2.5).<sup>27</sup> Thus, PM2.5 comprises a portion or a subset of PM10. Sources of PM10 emissions include dust from construction sites, landfills and agriculture, wildfires and brush/waste burning, industrial sources, and wind-blown dust from open lands.<sup>28</sup> Sources of PM2.5 emissions include combustion of gasoline, oil, diesel fuel, or wood. PM10 and PM2.5 may be either directly emitted from sources (primary particles) or formed in the atmosphere through chemical reactions of gases (secondary particles), such as SO<sub>2</sub>, NO<sub>x</sub>, and certain organic compounds. According to CARB, both PM10 and PM2.5 can be inhaled, with some depositing throughout the airways; PM10 is more likely to deposit on the surfaces of the larger airways of the upper region of the lung, while PM2.5 is more likely to travel into and deposit on the surface of the deeper parts of the lung, which can induce tissue damage, and lung inflammation. Short-term (up to 24 hours duration) exposure to PM10 has been associated primarily with worsening of respiratory diseases, including asthma and chronic obstructive pulmonary disease, leading to hospitalization and emergency department visits.<sup>29</sup> The effects of long-term (months or years) exposure to PM10 are less clear, although studies suggest a link between long-term PM10 exposure and respiratory mortality. The International Agency for Research on Cancer published a review in 2015 that concluded that particulate matter in outdoor air pollution causes lung cancer. Short-term exposure to PM2.5 has been associated with premature mortality, increased hospital admissions for heart or lung causes, acute and chronic bronchitis, asthma attacks, emergency room visits, respiratory symptoms, and restricted activity days and long-term exposure to PM2.5 has been linked to premature death, particularly in people who have chronic heart or lung diseases, and reduced lung function growth in children. According to CARB, populations most likely to experience adverse health effects with exposure to PM10 and PM2.5 include older adults with chronic heart or lung disease, children, and asthmatics and children and infants are more susceptible to harm from inhaling pollutants such as PM10 and PM2.5 compared to healthy adults because they inhale more air per pound of body weight than do adults, spend more time outdoors, and have developing immune systems.<sup>30</sup>

<sup>24</sup> CARB, Sulfur Dioxide & Health.

<sup>25</sup> USEPA, Sulfur Dioxide (SO<sub>2</sub>) Pollution.

<sup>26</sup> USEPA, Particulate Matter (PM) Pollution, <https://www.epa.gov/pm-pollution/particulate-matter-pm-basics>. Accessed December 6, 2021.

<sup>27</sup> USEPA, Particulate Matter (PM) Pollution.

<sup>28</sup> CARB, Inhalable Particulate Matter and Health (PM2.5 and PM10), <https://ww2.arb.ca.gov/resources/inhalable-particulate-matter-and-health>. Accessed December 6, 2021.

<sup>29</sup> CARB, Inhalable Particulate Matter and Health (PM2.5 and PM10).

<sup>30</sup> CARB, Inhalable Particulate Matter and Health (PM2.5 and PM10).

**Lead (Pb):** Major sources of lead emissions include ore and metals processing, piston-engine aircraft operating on leaded aviation fuel, waste incinerators, utilities, and lead-acid battery manufacturers.<sup>31</sup> In the past, leaded gasoline was a major source of lead emissions; however, the removal of lead from gasoline has resulted in a decrease of lead in the air by 98 percent between 1980 and 2014. Lead can adversely affect the nervous system, kidney function, immune system, reproductive and developmental systems and the cardiovascular system, and affects the oxygen carrying capacity of blood.<sup>32</sup> The lead effects most commonly encountered in current populations are neurological effects in children, such as behavioral problems and reduced intelligence, anemia, and liver or kidney damage.<sup>33</sup> Excessive lead exposure in adults can cause reproductive problems in men and women, high blood pressure, kidney disease, digestive problems, nerve disorders, memory and concentration problems, and muscle and joint pain.<sup>34</sup>

### 2.1.2 Other Criteria Pollutants (California Only)

The California Ambient Air Quality Standards (CAAQS) regulate the same criteria pollutants as the National Ambient Air Quality Standards (NAAQS) but, in addition, regulate State-identified criteria pollutants, including sulfates, hydrogen sulfide, visibility-reducing particles, and vinyl chloride.<sup>35</sup> A description of the health effects of the State-identified criteria air pollutants relevant to the Project is provided below. As the Project would not generate emissions of hydrogen sulfide or vinyl chloride, they are not discussed.

**Sulfates (SO<sub>4</sub><sup>2-</sup>):** Sulfates in the environment occur as a result of SO<sub>2</sub> (sulfur dioxide) being converted to SO<sub>4</sub><sup>2-</sup> compounds in the atmosphere where sulfur is first oxidized to SO<sub>2</sub> during the combustion process of sulfur containing, petroleum-derived fuels (e.g., gasoline and diesel fuel).<sup>36</sup> Exposure to SO<sub>4</sub><sup>2-</sup>, which are part of PM<sub>2.5</sub>, results in health effects similar to those from exposure to PM<sub>2.5</sub> including reduced lung function, aggravated asthmatic symptoms, and increased risk of emergency department visits, hospitalizations, and death in people who have chronic heart or lung diseases.<sup>37</sup> Population groups with higher risks of experiencing adverse health effects with exposure to SO<sub>4</sub><sup>2-</sup> include children, asthmatics, and older adults who have chronic heart or lung diseases.<sup>38</sup>

**Visibility-Reducing Particles:** Visibility-reducing particles come from a variety of natural and manmade sources and can vary greatly in shape, size and chemical composition. Visibility reduction is caused by the absorption and scattering of light by the particles in the atmosphere before it reaches the observer. Certain visibility-reducing particles are directly emitted to the air, such as windblown dust and soot, while others are formed in the atmosphere through chemical transformations of gaseous pollutants (e.g., sulfates, nitrates, organic carbon particles), which are

<sup>31</sup> USEPA, Lead Air Pollution, <https://www.epa.gov/lead-air-pollution/basic-information-about-lead-air-pollution>. Accessed December 6, 2021.

<sup>32</sup> USEPA, Lead Air Pollution.

<sup>33</sup> CARB, Lead & Health, <https://ww2.arb.ca.gov/resources/lead-and-health>. Accessed December 6, 2021.

<sup>34</sup> CARB, Lead & Health.

<sup>35</sup> CARB, California Ambient Air Quality Standards, <https://ww2.arb.ca.gov/resources/california-ambient-air-quality-standards>. Accessed December 6, 2021.

<sup>36</sup> CARB, Sulfate & Health, <https://ww2.arb.ca.gov/resources/sulfate-and-health>. Accessed December 6, 2021.

<sup>37</sup> CARB, Sulfate & Health.

<sup>38</sup> CARB, Sulfate & Health.

the major constituents of particulate matter. As the number of visibility reducing particles increases, more light is absorbed and scattered, resulting in less clarity, color, and visual range.<sup>39</sup> Exposure to some haze-causing pollutants have been linked to adverse health impacts similar to PM10 and PM2.5 as discussed above.<sup>40</sup>

## **Air Toxics**

### **Toxic Air Contaminants**

Toxic Air Contaminants (TACs), or hazardous air pollutants (HAPs) as defined by the USEPA, are defined as those contaminants that are known or suspected to cause serious health problems, but do not have a corresponding ambient air quality standard.<sup>41</sup> For consistency within this document they will be referred to as TACs. TACs are also defined as an air pollutant that may increase a person's risk of developing cancer and/or other serious health effects. TACs are emitted by a variety of industrial processes such as petroleum refining, electric utility and chrome plating operations, commercial operations such as gasoline stations and dry cleaners, and motor vehicle exhaust. TACs may exist as PM10 and PM2.5 or as vapors (gases).<sup>42</sup> TACs include metals, other particles, gases absorbed by particles, and certain vapors from fuels and other sources. The emission of a TAC does not automatically create a health hazard. Other factors, such as the amount of the TAC, its toxicity, how it is released into the air, the weather, and the terrain, all influence whether the emission could be hazardous to human health. Emissions of TACs into the air can be damaging to human health and to the environment. Human exposure to TACs at sufficient concentrations and durations can result in cancer, poisoning, and rapid onset of sickness, such as nausea or difficulty in breathing. Other less measurable effects include immunological, neurological, reproductive, developmental, and respiratory problems. TACs deposited onto soil or into lakes and streams affect ecological systems and eventually human health through consumption of contaminated food. The carcinogenic potential of TACs is a particular public health concern because many scientists currently believe that there is no "safe" level of exposure to carcinogens. Any exposure to a carcinogen poses some risk of contracting cancer.<sup>43</sup>

The public's exposure to TACs is a significant public health issue in California. The Air Toxics "Hotspots" Information and Assessment Act is a State law requiring facilities to report emissions of TACs to air districts.<sup>44</sup> The program is designated to quantify the amounts of potentially HAPs released, the location of the release, the concentrations to which the public is exposed, and the resulting health risks. The State Air Toxics Program (AB 2588) identified over 200 TACs, including the 188 TACs identified in the Clean Air Act (CAA).<sup>45</sup>

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<sup>39</sup> CARB, Visibility-Reducing Particles and Health, <https://ww2.arb.ca.gov/resources/visibility-reducing-particles-and-health>. Accessed December 6, 2021.

<sup>40</sup> CARB, Visibility-Reducing Particles and Health.

<sup>41</sup> USEPA, Hazardous Air Pollutants, <https://www.epa.gov/haps>. Accessed December 6, 2021.

<sup>42</sup> USEPA, Hazardous Air Pollutants: Sources and Exposure, <https://www.epa.gov/haps/hazardous-air-pollutants-sources-and-exposure>. Accessed December 6, 2021.

<sup>43</sup> USEPA, Hazardous Air Pollutants.

<sup>44</sup> CARB, General Information About "Hot Spots", <https://www.arb.ca.gov/ab2588/general.htm>. Accessed December 6, 2021.

<sup>45</sup> CARB, AB 25188 Air Toxics "Hot Spots" Program, <https://www.arb.ca.gov/ab2588/ab2588.htm>. Accessed December 6, 2021.



The USEPA has assessed this expansive list and identified 21 TACs as Mobile Source Air Toxics (MSATs).<sup>46</sup> MSATs are compounds emitted from highway vehicles and non-road equipment. Some toxic compounds are present in fuel and are emitted to the air when the fuel evaporates or passes through the engine unburned. Other toxics are emitted from the incomplete combustion of fuels or as secondary combustion products. Metal air toxics also result from engine wear or from impurities in oil or gasoline. USEPA also extracted a subset of these 21 MSAT compounds that it now labels as the nine priority MSATs: 1,3-butadiene, acetaldehyde, acrolein, benzene, diesel particulate matter (DPM)/diesel exhaust organic gases, ethylbenzene, naphthalene, and polycyclic organic matter. While these nine MSATs are considered the priority transportation toxics, USEPA stresses that the lists are subject to change and may be adjusted in future rules.<sup>47</sup>

### Diesel Exhaust

According to the California Almanac of Emissions and Air Quality, the majority of the estimated health risks from TACs can be attributed to relatively few compounds, the most important being particulate matter from the exhaust of diesel-fueled engines, i.e., DPM.<sup>48</sup> DPM differs from other TACs in that it is not a single substance, but rather a complex mixture of hundreds of substances.

Diesel exhaust is composed of two phases, gas and particle, and both phases contribute to the health risk. The gas phase is composed of many of the urban HAPs, such as acetaldehyde, acrolein, benzene, 1,3-butadiene, formaldehyde and polycyclic aromatic hydrocarbons. The particle phase is also composed of many different types of particles by size or composition. Fine and ultra-fine diesel particulates are of the greatest health concern and may be composed of elemental carbon with adsorbed compounds such as organic compounds, sulfate, nitrate, metals and other trace elements. Diesel exhaust is emitted from a broad range of diesel engines; the on-road diesel engines of trucks, buses and cars and the off-road diesel engines that include locomotives, marine vessels and heavy-duty equipment. Although DPM is emitted by diesel-fueled internal combustion engines, the composition of the emissions varies depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emission control system is present.

The most common exposure to DPM is breathing air that contains diesel exhaust. The fine and ultra-fine particles are respirable (similar to PM<sub>2.5</sub>), which means that they can avoid many of the human respiratory system defense mechanisms and enter deeply into the lung. Exposure to DPM comes from both on-road and off-road engine exhaust that is either directly emitted from the engines or lingering in the atmosphere.

<sup>46</sup> USEPA, Air Toxics Risk Assessment Reference Library, Volume 1 Technical Resource Manual. April 2004. page 2-1. Air Toxics Risk Assessment Reference Library, Volume 1 Technical Resource Manual, EPA-453-K-04-001A, April 2004. Accessed December 6, 2021.

<sup>47</sup> U.S. Department of Transportation Federal Highway Administration, Updated Interim Guidance on Mobile Source Air Toxic Analysis in NEPA Documents, April 2, 2018. [https://www.fhwa.dot.gov/ENVIRONMENT/air\\_quality/air\\_toxics/policy\\_and\\_guidance/msat/nmsatetrends.cfm](https://www.fhwa.dot.gov/ENVIRONMENT/air_quality/air_toxics/policy_and_guidance/msat/nmsatetrends.cfm). Accessed December 6, 2021.

<sup>48</sup> CARB, The California Almanac of Emissions and Air Quality, <https://ww2.arb.ca.gov/our-work/programs/resource-center/technical-assistance/air-quality-and-emissions-data/almanac>. Accessed December 6, 2021.

Diesel exhaust causes health effects from long-term chronic exposures. The type and severity of health effects depends upon several factors including the amount of chemical exposure and the duration of exposure. Individuals also react differently to different levels of exposure. There is limited information on exposure to only DPM, but there is enough evidence to indicate that inhalation exposure to diesel exhaust causes chronic health effects as well as having cancer-causing potential.

Because DPM is typically less than 2.5 microns in size, it also contributes to the same non-cancer health effects as PM<sub>2.5</sub> exposure. These effects include premature death, hospitalizations and emergency department visits for exacerbated chronic heart and lung disease, including asthma, increased respiratory symptoms, and decreased lung function in children. Several studies suggest that exposure to DPM may also facilitate development of new allergies. Those most vulnerable to non-cancer health effects are children whose lungs are still developing and the elderly who often have chronic health problems.<sup>49</sup>

### **Gasoline Exhaust**

Similar to diesel exhaust, gasoline is composed of two phases, gas and particle, and both phases contribute to the health risk. The gas phase is composed of the same HAPs, such as acetaldehyde, acrolein, benzene, 1,3-butadiene, formaldehyde and polycyclic aromatic hydrocarbons. The particle phase is also composed of many different types of particles by size or composition. Fine and ultra-fine diesel particulates are of the greatest health concern and may be composed of elemental carbon with adsorbed compounds such as organic compounds, sulfate, nitrate, metals and other trace elements. Gasoline exhaust is primarily emitted from light-duty passenger vehicles. The compounds in the gas and particles phases can cause health effects from short- and long-term exposures.

## **2.2 Regulatory Framework**

### **2.2.1 Federal**

The Federal Clean Air Act was enacted in 1955 and has been amended numerous times in subsequent years, with the most recent amendments occurring in 1990.<sup>50</sup> The CAA is the comprehensive federal law that regulates air emissions in order to protect public health and welfare.<sup>51</sup> The USEPA is responsible for the implementation and enforcement of the CAA, which establishes federal NAAQS, specifies future dates for achieving compliance, and requires USEPA to designate areas as attainment, nonattainment, or maintenance. The CAA also mandates that each state submit and implement a state Implementation Plan (SIP) for each criteria pollutant for which the State has not achieved the applicable NAAQS. The SIP includes pollution control measures that demonstrate how the standards for those pollutants will be met. The sections of the

<sup>49</sup> CARB, Overview: Diesel Exhaust & Health. <https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health>. Accessed October 27, 2021.

<sup>50</sup> 42 United States Code Section 7401 et seq., 1970.

<sup>51</sup> USEPA, Summary of the Clean Air Act, <https://www.epa.gov/laws-regulations/summary-clean-air-act>. Accessed October 27, 2021.

CAA most applicable to the Project include Title I (Nonattainment Provisions) and Title II (Mobile Source Provisions).<sup>52,53</sup>

Title I requirements are implemented for the purpose of attaining NAAQS for criteria air pollutants. The NAAQS were amended in July 1997 to include an 8-hour standard for ozone and to adopt a NAAQS for PM<sub>2.5</sub>. The NAAQS were also amended in September 2006 to include an established methodology for calculating PM<sub>2.5</sub>, as well to revoke the annual PM<sub>10</sub> threshold.

**Table 1, *Ambient Air Quality Standards***, shows the NAAQS currently in effect for each criteria pollutant. The NAAQS and the CAAQS for the California criteria air pollutants (discussed below) have been set at levels considered safe to protect public health, including the health of sensitive populations such as asthmatics, children, and the elderly with a margin of safety; and to protect public welfare, including against decreased visibility and damage to animals, crops, vegetation, and buildings.<sup>54</sup>

In addition to criteria pollutants, Title I also includes air toxics provisions which require USEPA to develop and enforce regulations to protect the public from exposure to airborne contaminants that are known to be hazardous to human health. In accordance with Section 112, USEPA establishes National Emission Standards for Hazardous Air Pollutants (NESHAPs). The list of HAPs, or air toxics, includes specific compounds that are known or suspected to cause cancer or other serious health effects.

Title II requirements pertain to mobile sources, such as cars, trucks, buses, and planes. Reformulated gasoline, automobile pollution control devices, and vapor recovery nozzles on gas pumps are a few of the mechanisms the USEPA uses to regulate mobile air emission sources. The provisions of Title II have resulted in tailpipe emission standards for vehicles, which have been strengthened in recent years to improve air quality. For example, the standards for NO<sub>x</sub> emissions have been lowered substantially, and the specification requirements for cleaner burning gasoline are more stringent.

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<sup>52</sup> USEPA, Clean Air Act Overview, Clean Air Act Table of Contents by Title, Last Updated January 3, 2017, <https://www.epa.gov/clean-air-act-overview/clean-air-act-text>. Accessed October 27, 2021. As shown therein, Title I addresses nonattainment areas and Title II addresses mobile sources.

<sup>53</sup> Mobile sources include on-road vehicles (e.g., cars, buses, motorcycles) and non-road vehicles (e.g., aircraft, trains, construction equipment). Stationary sources are comprised of both point and area sources. Point sources are stationary facilities that emit large amount of pollutants (e.g., municipal waste incinerators, power plants). Area sources are smaller stationary sources that alone are not large emitters, but combined can account for large amounts of pollutants (e.g., consumer products, residential heating, dry cleaners).

<sup>54</sup> USEPA, NAAQS Table, <https://www.epa.gov/criteria-air-pollutants/naaqs-table>. Accessed October 27, 2021.

**TABLE 1**  
**AMBIENT AIR QUALITY STANDARDS**

Pollutant	Average Time	California Standards <sup>a</sup>		National Standards <sup>b</sup>		
		Concentration <sup>c</sup>	Method <sup>d</sup>	Primary <sup>c,e</sup>	Secondary <sup>c,f</sup>	Method <sup>g</sup>
O <sub>3</sub> <sup>h</sup>	1 Hour	0.09 ppm (180 µg/m <sup>3</sup> )	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m <sup>3</sup> )		0.070 ppm (137 µg/m <sup>3</sup> )		
NO <sub>2</sub> <sup>i</sup>	1 Hour	0.18 ppm (339 µg/m <sup>3</sup> )	Gas Phase Chemiluminescence	100 ppb (188 µg/m <sup>3</sup> )	None	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m <sup>3</sup> )		53 ppb (100 µg/m <sup>3</sup> )		
CO	1 Hour	20 ppm (23 mg/m <sup>3</sup> )	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m <sup>3</sup> )	None	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m <sup>3</sup> )		9 ppm (10 mg/m <sup>3</sup> )		
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m <sup>3</sup> )		—		
SO <sub>2</sub> <sup>j</sup>	1 Hour	0.25 ppm (655 µg/m <sup>3</sup> )	Ultraviolet Fluorescence	75 ppb (196 µg/m <sup>3</sup> )	—	Ultraviolet Fluorescence; Spectro-photometry (Pararosaniline Method)
	3 Hour	—		—		
	24 Hour	0.04 ppm (105 µg/m <sup>3</sup> )		0.14 ppm (for certain areas) <sup>j</sup>		
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas) <sup>j</sup>		
PM10 <sup>k</sup>	24 Hour	50 µg/m <sup>3</sup>	Gravimetric or Beta Attenuation	150 µg/m <sup>3</sup>	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m <sup>3</sup>		—		
PM2.5 <sup>k</sup>	24 Hour	No Separate State Standard	Gravimetric or Beta Attenuation	35 µg/m <sup>3</sup>	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m <sup>3</sup>		12.0 µg/m <sup>3,k</sup>		
Lead <sup>l,m</sup>	30 Day Average	1.5 µg/m <sup>3</sup>	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m <sup>3</sup> (for certain areas) <sup>m</sup>		
	Rolling 3-Month Average <sup>m</sup>	—		0.15 µg/m <sup>3</sup>		

**TABLE 1 (CONTINUED)**  
**AMBIENT AIR QUALITY STANDARDS**

Pollutant	Average Time	California Standards <sup>a</sup>		National Standards <sup>b</sup>	
		Concentration <sup>c</sup>	Method <sup>d</sup>	Primary <sup>c,e</sup>	Secondary <sup>c,f</sup>
Visibility Reducing Particles <sup>n</sup>	8 Hour	Extinction coefficient of 0.23 per km — visibility of ten miles or more due to particles when relative humidity is less than 70%.	Beta Attenuation and Transmittance through Filter Tape		<b>No Federal Standards</b>
Sulfates (SO <sub>4</sub> )	24 Hour	25 µg/m <sup>3</sup>	Ion Chromatography		<b>No Federal Standards</b>
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m <sup>3</sup> )	Ultraviolet Fluorescence		<b>No Federal Standards</b>
Vinyl Chloride <sup>l</sup>	24 Hour	0.01 ppm (26 µg/m <sup>3</sup> )	Gas Chromatography		<b>No Federal Standards</b>

## NOTES:

- <sup>a</sup> California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
- <sup>b</sup> National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 micrograms/per cubic meter (µg/m<sup>3</sup>) is equal to or less than one. For PM2.5, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard.
- <sup>c</sup> Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
- <sup>d</sup> Any equivalent procedure which can be shown to the satisfaction of the California Air Resources Board to give equivalent results at or near the level of the air quality standard may be used.
- <sup>e</sup> National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
- <sup>f</sup> National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- <sup>g</sup> Reference method as described by the USEPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the USEPA.
- <sup>h</sup> On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
- <sup>i</sup> To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb.
- <sup>j</sup> On June 2, 2010, a new 1-hour SO<sub>2</sub> standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO<sub>2</sub> national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated non-attainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
- <sup>k</sup> On December 14, 2012, the national annual PM<sub>2.5</sub> primary standard was lowered from 15 µg/m<sup>3</sup> to 12.0 µg/m<sup>3</sup>.
- <sup>l</sup> CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
- <sup>m</sup> The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 µg/m<sup>3</sup> as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated non-attainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
- <sup>n</sup> In 1989, CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

SOURCE: CARB, Ambient Air Quality Standards May 4, 2016, <https://ww2.arb.ca.gov/sites/default/files/2020-07/aaqs2.pdf>. Accessed October 27, 2021.

## 2.2.2 State of California

### **California Air Resources Board**

The California Clean Air Act (CCAA), signed into law in 1988, requires all areas of California to achieve and maintain the CAAQS. CARB, a part of the California Environmental Protection Agency, is responsible for the coordination and administration of both Federal and State air pollution control programs within California. In this capacity, CARB conducts research, sets the CAAQS, compiles emission inventories, develops suggested control measures, and provides oversight of local programs. CARB establishes emissions standards for motor vehicles sold in California, consumer products (such as hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions. CARB has primary responsibility for the development of California's SIP, for which it works closely with the federal government and the local air districts. The SIP is required for the State to take over implementation of the federal CAA from the USEPA.

### **California Clean Air Act**

The CCAA, signed into law in 1988, requires all areas of the State to achieve and maintain the CAAQS by the earliest practical date. The CAAQS are established to protect the health of the most sensitive groups and apply to the same criteria pollutants as the federal CAA and also includes State-identified criteria pollutants, which are sulfates, visibility-reducing particles, hydrogen sulfide, and vinyl chloride.<sup>55</sup> CARB has primary responsibility for ensuring the implementation of the CCAA,<sup>56</sup> responding to the federal CAA planning requirements applicable to the State, and regulating emissions from motor vehicles and consumer products within the State.

Health and Safety Code Section 39607(e) requires CARB to establish and periodically review area designation criteria. **Table 2, South Coast Air Basin Attainment Status**, below provides a summary of the attainment status of the Los Angeles County portion of the Air Basin with respect to the State standards. The Air Basin is designated as attainment for the California standards for sulfates and unclassified for hydrogen sulfide and visibility-reducing particles. The Air Basin is currently in non-attainment for O<sub>3</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> under the CAAQS. Since vinyl chloride is a carcinogenic toxic air contaminant, CARB does not classify attainment status for this pollutant.

### **Mobile Source Regulations**

Mobile sources are a significant contributor to the air pollution in California. CARB has established exhaust emission standards for automobiles, which are more stringent than the federal emissions standards. Through its Mobile Sources Program, CARB has developed programs and policies to reduce emissions from on-road heavy-duty diesel vehicles. Specifically, the Truck and Bus regulation requires diesel trucks and buses that operate in the State to reduce NO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions (Title 13 California Code of Regulations [CCR], Section 2025). By January 1, 2023, nearly all vehicles must have engines certified to 2010 model year engines or equivalent.

<sup>55</sup> CARB, California Ambient Air Quality Standards (CAAQS), last reviewed August 10, 2017.

<sup>56</sup> Chapter 1568 of the Statutes of 1988.

**TABLE 2**  
**SOUTH COAST AIR BASIN ATTAINMENT STATUS**

<b>Pollutant</b>	<b>National Standards (NAAQS)</b>	<b>California Standards (CAAQS)</b>
O <sub>3</sub> (1-hour standard)	N/A <sup>a</sup>	Non-attainment
O <sub>3</sub> (8-hour standard)	Non-attainment – Extreme	Non-attainment
CO	Attainment	Attainment
NO <sub>2</sub>	Attainment	Attainment
SO <sub>2</sub>	Attainment	Attainment
PM10	Attainment	Non-attainment
PM2.5	Non-attainment – Serious	Non-attainment
Lead (Pb)	Non-attainment (Partial) <sup>b</sup>	Attainment
Visibility Reducing Particles	N/A	Unclassified
Sulfates	N/A	Attainment
Hydrogen Sulfide	N/A	Unclassified
Vinyl Chloride <sup>c</sup>	N/A	N/A

NOTES: N/A = not applicable

<sup>a</sup> The NAAQS for 1-hour ozone was revoked on June 15, 2005, for all areas except Early Action Compact areas.

<sup>b</sup> Partial Non-attainment designation – Los Angeles County portion of the Air Basin only for near-source monitors.

<sup>c</sup> In 1990, the California Air Resources Board identified vinyl chloride as a toxic air contaminant and determined that it does not have an identifiable threshold. Therefore, the California Air Resources Board does not monitor or make status designations for this pollutant.

SOURCE: USEPA, The Green Book Non-Attainment Areas for Criteria Pollutants, <https://www.epa.gov/green-book>; CARB, Area Designations Maps/State and National, <http://www.arb.ca.gov/degis/adm/adm.htm>. Accessed October 27, 2021.

The Innovative Clean Transit Program (ICT) sets emissions reduction standards for new public transit vehicles and requires major transit agencies to only purchase zero emission (ZE) buses after 2029.<sup>57</sup> The Solid Waste Collection Vehicle Regulation requires solid waste collection vehicles and heavy diesel-fueled on-road single engine cranes to be upgraded.<sup>58</sup> The Rule for On-Road Heavy-Duty Diesel-Fueled Public and Utility Fleets requires fleets to install emission control devices on vehicles or purchase vehicles that run on alternative fuels or use advanced technologies to achieve emissions requirements by specified implementation dates.<sup>59</sup> CARB also established an In-Use Off-Road Diesel-Fueled Fleets Regulation to impose limits on idling and require fleets to retrofit or replace older engines.<sup>60</sup>

### **California Code of Regulations**

The California Code of Regulations is the official compilation and publication of regulations adopted, amended or repealed by the State agencies pursuant to the Administrative Procedure Act. The CCR includes regulations that pertain to air quality emissions. Specifically, Section 2485 in Title 13 of the CCR states that the idling of all diesel-fueled commercial vehicles

<sup>57</sup> CARB, Innovative Clean Transit (ICT) Regulation Fact Sheet, <https://ww2.arb.ca.gov/resources/fact-sheets/innovative-clean-transit-ict-regulation-fact-sheet>. Accessed November 2021.

<sup>58</sup> CARB, Solid Waste Collection Vehicle Regulation, <https://ww2.arb.ca.gov/our-work/programs/solid-waste-collection-vehicle-regulation/about>. Accessed November 2021.

<sup>59</sup> CARB, Fleet Rule for Public Agencies and Utilities, <https://ww2.arb.ca.gov/our-work/programs/fleet-rule-public-agencies-and-utilities>. Accessed November 2021.

<sup>60</sup> CARB, In-Use Off-Road Diesel-Fueled Fleets Regulation, <https://ww2.arb.ca.gov/our-work/programs/use-road-diesel-fueled-fleets-regulation>. Accessed November 2021.

(weighing over 10,000 pounds) during construction shall be limited to five minutes at any location. In addition, Section 93115 in Title 17 of the CCR states that operations of any stationary, diesel-fueled, compression-ignition engines shall meet specified fuel and fuel additive requirements and emissions standards.

### ***On-Road and Off-Road Vehicle Rules***

In 2004, CARB adopted an Airborne Toxic Control Measure (ATCM) to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel PM and other TACs (Title 13 CCR, Section 2485). The measure applies to diesel-fueled commercial vehicles with gross vehicle weight ratings (GVWR) greater than 10,000 pounds that are licensed to operate on highways, regardless of where they are registered. This measure does not allow diesel-fueled commercial vehicles to idle for more than five minutes at any given time.

In 2008 CARB approved the Truck and Bus regulation to reduce NO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions from existing diesel vehicles operating in California (13 CCR, Section 2025). The requirements were amended to apply to nearly all diesel-fueled trucks and busses with a GVWR greater than 14,000 pounds. For the largest trucks in the fleet, those with a GVWR greater than 26,000 pounds, all must be equipped with diesel particulate filters (DPFs) from 2014 and onward, and must have 2010 model year engines by January 1, 2023. For trucks and buses with a GVWR of 14,001 to 26,000 pounds, those with engine model years 14 to 20 years or older must be replaced with 2010 model year engines in accordance with the schedule specified in the regulation.

In addition to limiting exhaust from idling trucks, CARB also promulgated emission standards for off-road diesel construction equipment of greater than 25 horsepower such as bulldozers, loaders, backhoes and forklifts, as well as many other self-propelled off-road diesel vehicles. The regulation adopted by the CARB on July 26, 2007 reduces emissions by requiring the installation of diesel soot filters and the retirement, replacement, or repowering of older, dirtier engines with newer emission-controlled models (13 CCR, Section 2449). Implementation is staggered based on fleet size (which is the total of all off-road horsepower under common ownership or control), with the largest fleets to begin compliance in 2014, medium fleets in 2017, and small fleets in 2019. Each fleet must demonstrate compliance through one of two methods. The first option is to calculate and maintain fleet average emissions targets, which encourages the retirement or repowering of older equipment and rewards the introduction of newer cleaner units into the fleet. The second option is to meet the Best Available Control Technology (BACT) requirements by turning over or installing Verified Diesel Emission Control Strategies (VDECS) on a certain percentage of its total fleet horsepower. The compliance schedule requires that BACT turn overs or retrofits (VDECS installation) be fully implemented by 2023 in all equipment for large and medium fleets and by 2028 for small fleets.

In June 2020, the Advanced Clean Trucks (ACT) regulation was approved by CARB, which mandates zero-emission vehicle (ZEV) sales requirements for truck manufacturers and a one-time reporting requirement for large entities and fleets.<sup>61</sup> The regulation is designed to accelerate widespread adoption of ZEVs in the medium- and heavy-duty truck sector to reduce on-road

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<sup>61</sup> CARB, Advanced Clean Trucks, <https://ww2.arb.ca.gov/our-work/programs/advanced-clean-trucks>. Accessed January 2021.



mobile source emissions on the path to carbon neutrality by 2045 (EO B-55-18). Starting in 2024, zero-emission powertrain certification will be required. Vehicle classes separate vehicles by their GVWR, maximum weight, and classes range from 1 to 8. However, in the context of ACT, Class 2b-3 group includes on-road vehicles with a GVWR that is 8,501 pounds up to 14,000 pounds; Class 4-8 group includes on-road vehicles with a GVWR that is 14,001 pounds and above, including “yard tractors”; and Class 7-8 group includes on-road vehicles that have a GVWR 26,001 pounds and above, including vehicles defined as “tractors”.<sup>62</sup> The ACT has different truck sales requirement for the different vehicle groups. Manufacturers will need to increase their percentage of ZEVs in order to achieve 55 percent of Class 2b-3 truck sales, 75 percent of Class 4-8 Vocational straight truck sales, and 40 percent of Class 7-8 Tractor sales by 2035. Currently, there are over 70 different models of ZE vans, trucks, and buses commercially available.<sup>63</sup> Most recently, in September 2020, Governor Gavin Newsom announced Executive Order N-79-20 stating that 100 percent of new passenger cars and 100 percent of operations for drayage trucks and off-road vehicles and equipment shall be ZE by 2035. By 2045, 100 percent of operations of medium- and heavy-duty vehicles shall be ZE.<sup>64</sup>

### **Toxic Air Contaminants**

The California Air Toxics Program was established in 1983, when the California Legislature adopted AB 1807 to establish a two-step process of risk identification and risk management to address potential health effects from exposure to toxic substances in the air. In the risk identification step, CARB and Office of Environmental Health Hazard Assessment (OEHHA) determine if a substance should be formally identified, or “listed”, as a TAC in California. Since the inception of the program, a number of such substances have been listed ([www.arb.ca.gov/toxics.id/taclist.htm](http://www.arb.ca.gov/toxics.id/taclist.htm)). In 1993, the California Legislature amended the program to identify the 189 federal hazardous air pollutants (HAPs) as TACs.

The greatest potential for TAC emissions during construction would be related to DPM emissions associated with heavy-duty equipment during demolition, excavation and grading activities. Construction activities associated with the proposed project would be sporadic, transitory, and short term in nature. The OEHHA is responsible for developing and revising guidelines for performing health risk assessments (HRAs) under the State’s the Air Toxics “Hot Spots” Program Risk Assessment regulation. In March 2015, OEHHA adopted revised guidelines that update the previous guidance by incorporating advances in risk assessment with consideration of infants and children using age-sensitivity factors (ASF) (OEHHA 2015). The analysis of potential construction TAC impacts considers the OEHHA revised guidelines as well as the duration of construction, level of construction activity, scale of the proposed project, and compliance with regulations that would minimize construction TAC emissions. In the risk management step, CARB reviews emission sources of an identified TAC to determine whether regulatory action is

<sup>62</sup> CARB, Advanced Clean Trucks Regulation. <https://ww3.arb.ca.gov/regact/2019/act2019/fro2.pdf>. Accessed April 2021.

<sup>63</sup> CARB, Advanced Clean Trucks, <https://ww2.arb.ca.gov/our-work/programs/advanced-clean-trucks>. Accessed January 2021.

<sup>64</sup> JD Supra 2020. A First Look at California’s Executive Order Banning Fuel-Burning Vehicles and Imposing Other Greenhouse Gas Reducing Restrictions, <https://www.jdsupra.com/legalnews/a-first-look-at-california-s-executive-17672/>. Accessed January 2021.

needed to reduce risk. Based on the results of that review, CARB has promulgated a number of ATCMs, both for mobile and stationary sources (see discussion of On-road and Off-Road Vehicle Rules, above).

The AB 1807 program is supplemented by the AB 2588 Air Toxics “Hot Spots” program, which was established by the California Legislature in 1987. Under this program, facilities are required to report their air toxics emissions, assess health risks, and notify nearby residents and workers of significant risks if present. In 1992, the AB 2588 program was amended by Senate Bill (SB) 1731 to require facilities that pose a significant health risk to the community to reduce their risk through implementation of a risk management plan.

### 2.2.3 Regional

#### ***South Coast Air Quality Management District***

The SCAQMD is primarily responsible for planning, implementing, and enforcing air quality standards for the South Coast Air Basin (Air Basin) which includes all of Orange County, Los Angeles County (excluding the Antelope Valley portion), the western, non-desert portion of San Bernardino County, and the western Coachella Valley and San Gorgonio Pass portions of Riverside County. The Air Basin is an approximately 6,745-square-mile area bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. The Air Basin is a subregion within the western portion of the SCAQMD jurisdiction. **Figure 1**, *Regional Location Map*, shows the location of the Air Basin and Air District.

#### **Air Quality Management Plan**

The SCAQMD has adopted Air Quality Management Plans (AQMPs) to meet the CAAQS and NAAQS. Most recently, SCAQMD has initiated the development of the 2022 AQMP to address the attainment of the 2015 8-hour ozone standard (70 part per billion [ppb]) for the Air Basin and Coachella Valley. The Air Basin is classified as an “extreme” non-attainment area and the Coachella Valley is classified as a “severe-15” non-attainment area for the 2015 Ozone NAAQS. In 2021, SCAQMD and CARB established Mobile Source Working Groups to support the development of mobile source strategies. SCAQMD also established Residential and Commercial Buildings Working Groups to support the development of control measures.

The SCAQMD Governing Board adopted the 2016 AQMP on March 3, 2017.<sup>65</sup> CARB approved the 2016 AQMP on March 23, 2017.<sup>66</sup> Key elements of the 2016 AQMP include implementing fair-share emissions reductions strategies at the federal, State, and local levels; establishing partnerships, funding, and incentives to accelerate deployment of zero and near-zero-emissions technologies; and taking credit from co-benefits from greenhouse gas, energy, transportation and other planning efforts.<sup>67</sup> The strategies included in the 2016 AQMP build on the strategies from

<sup>65</sup> SCAQMD, 2017. Final 2016 Air Quality Management Plan (AQMP), March. <http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air-quality-management-plan/final-2016-aqmp/final2016aqmp.pdf?sfvrsn=15>. Accessed October 27, 2021.

<sup>66</sup> CARB, News Release - CARB establishes next generation of emission controls needed to improve state’s air quality, <https://ww2.arb.ca.gov/news/carb-establishes-next-generation-emission-controls-needed-improve-states-air-quality>. Accessed October 27, 2021.

<sup>67</sup> SCAQMD, 2017. 2016 Final AQMP.

the previous 2012 AQMP and are intended to demonstrate attainment of the NAAQS, which are set at levels considered safe to protect public health, including the health of sensitive populations such as asthmatics, children, and the elderly with a margin of safety; and to protect public welfare, including against decreased visibility and damage to animals, crops, vegetation, and buildings,<sup>68</sup> for the federal non-attainment pollutants ozone and PM<sub>2.5</sub> while accounting for regional growth, increasing development, and maintaining a healthy economy.<sup>69</sup> In general, SCAQMD's criteria for evaluating control strategies for stationary and mobile sources is based on the following: (1) cost-effectiveness; (2) emissions reduction potential; (3) enforceability; (4) legal authority; (5) public acceptability; (6) rate of emission reduction; and (7) technological feasibility.

Control strategies in the AQMP with potential applicability to reducing short-term emissions from construction activities associated with the Project include strategies denoted in the 2016 AQMP as MOB-08 and MOB-10, which are intended to reduce emissions from on-road and off-road heavy-duty vehicles and equipment.<sup>70</sup> Descriptions of measures MOB-08 and MOB-10 are provided below:

- **MOB-08 – Accelerated Retirement of Older On-Road Heavy-Duty Vehicles:** This measure seeks to replace up to 2,000 heavy-duty vehicles per year with newer or new vehicles that at a minimum, meet the 2010 on-road heavy-duty NO<sub>x</sub> exhaust emissions standard of 0.2 grams per brake horsepower-hour (g/bhp-hr).
- **MOB-10 – Extension of the SOON Provision for Construction/Industrial Equipment:** This measure continues the Surplus Off-Road Option for NO<sub>x</sub> (SOON) provision of the statewide In-Use Off-Road Fleet Vehicle Regulation through the 2031 timeframe.

The 2016 AQMP is used in the following air quality analyses since it has been adopted by both SCAQMD and CARB.

### SCAQMD Air Quality Guidance Documents

SCAQMD's California Environmental Quality Act (CEQA) guidelines are voluntary initiatives recommended for consideration by local planning agencies. The *CEQA Air Quality Handbook* (Handbook) published by SCAQMD provides local governments with guidance for analyzing and mitigating project-specific air quality impacts.<sup>71</sup> SCAQMD is currently updating some of the information and methods in the Handbook, such as the screening tables for determining the air quality significance of a project and the on-road mobile source emission factors. While this process is underway, SCAQMD recommends using other approved models to calculate emissions from land use projects, such as California Emissions Estimator Model (CalEEMod).<sup>72-73</sup>

<sup>68</sup> USEPA, NAAQS Table, <https://www.epa.gov/criteria-air-pollutants/naaqs-table>. Accessed October 27, 2021.

<sup>69</sup> SCAQMD, 2016c. NAAQS/CAAQS and Attainment Status for South Coast Air Basin, February. <http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf>. Accessed October 27, 2021.

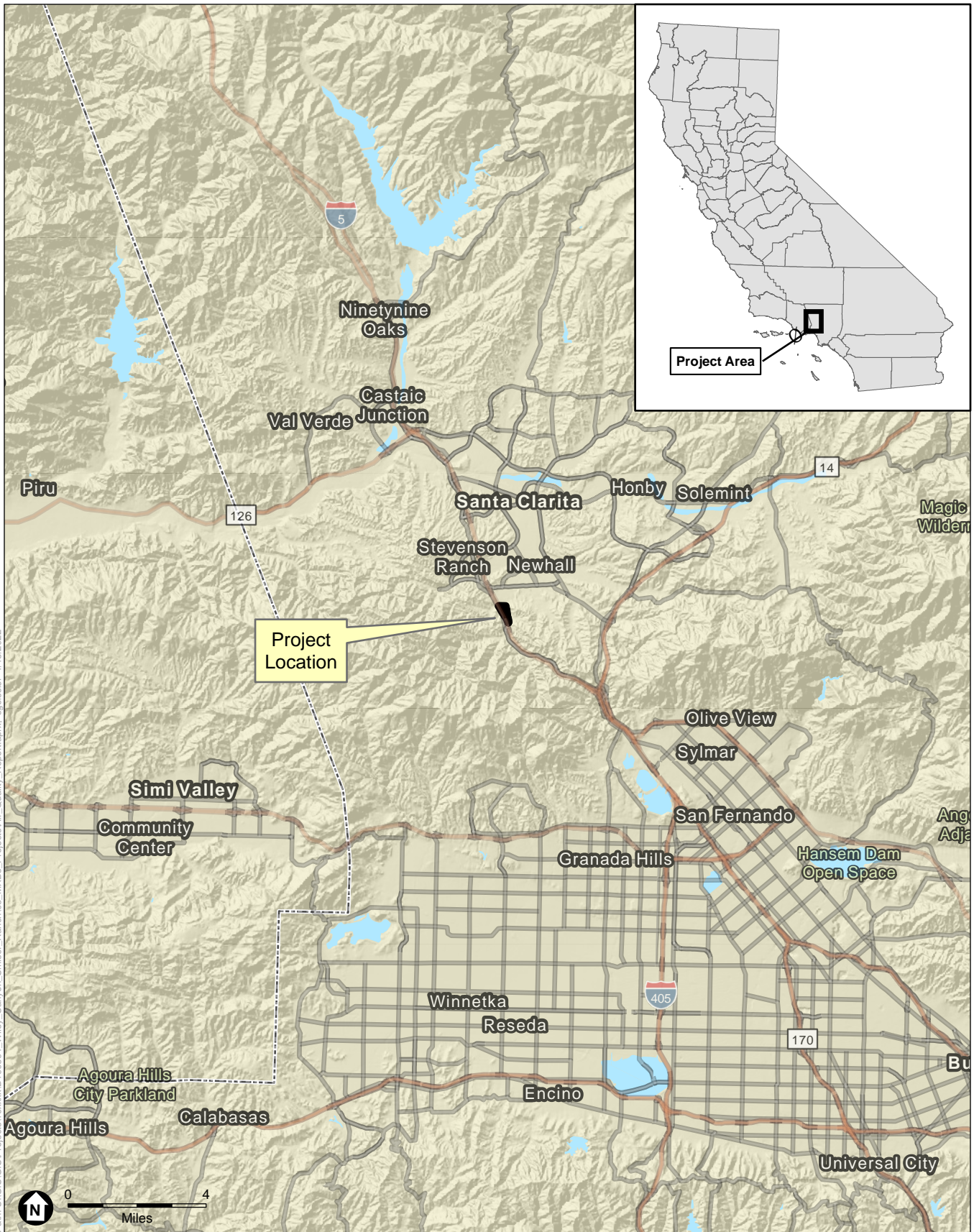
<sup>70</sup> SCAQMD, 2017. 2016 Final AQMP, March.

<sup>71</sup> SCAQMD, 1993. CEQA Air Quality Handbook, November.

<sup>72</sup> SCAQMD, Air Quality Modeling, <https://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-modeling>. Accessed October 27, 2021.

<sup>73</sup> CalEEMod, Version 2020.4.0.





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SOURCE: ESRI

Wiley Canyon (Smiser Ranch) Mixed Use Project

**Figure 1**  
Regional Location Map





The SCAQMD's Guidance Document for *Addressing Air Quality Issues in General Plans and Local Planning* considers impacts to air quality sensitive receptors from TAC-emitting facilities.<sup>74</sup> SCAQMD's siting distance recommendations are the same as those provided by CARB (e.g., a 500-foot siting distance for air quality sensitive receptors proposed in proximity to freeways and high-traffic roads, and the same siting criteria for distribution centers and dry cleaning facilities).

The SCAQMD *Final Localized Significance Threshold Methodology* and *Final Methodology to Calculate Particulate Matter (PM) 2.5 and PM2.5 Significance Thresholds* provides guidance when evaluating the localized effects of emissions in the CEQA evaluation.<sup>75,76</sup> These guidance documents were promulgated by the SCAQMD Governing Board as a tool to assist lead agencies to analyzed localized impacts associated with project-specific level proposed projects. The guidance documents establish mass emission rate "look up tables" as significance thresholds for projects that are five acres or less. For projects that are larger than five acres it is recommended that project-specific air quality dispersion modeling is completed to determine localized air quality.

### SCAQMD Rules and Regulations

The SCAQMD has adopted many rules and regulations to regulate sources of air pollution in the Air Basin and to help achieve air quality standards. The Project may be subject to the following SCAQMD rules and regulations:

**Regulation IV – Prohibitions:** This regulation sets forth the restrictions for visible emissions, odor nuisance, fugitive dust, various air emissions, fuel contaminants, start-up/shutdown exemptions and breakdown events. The following is a list of rules which apply to the Project:

**Rule 401 – Visible Emissions:** This rule states that a person shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is as dark or darker in shade as that designated No. 1 on the Ringelmann Chart or of such opacity as to obscure an observer's view.

**Rule 402 – Nuisance:** This rule states that a person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health, or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

<sup>74</sup> SCAQMD, 2005. Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning, May 06. <http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf>. Accessed October 27, 2021.

<sup>75</sup> SCAQMD, 2008. Final Localized Significance Threshold Methodology, June 2003, Revised July 2008. <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-1st-methodology-document.pdf>. Accessed October 27, 2021.

<sup>76</sup> SCAQMD, 2006. Final – Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds. October. [http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/particulate-matter-\(pm\)-2.5-significance-thresholds-and-calculation-methodology/final\\_pm2\\_5methodology.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/particulate-matter-(pm)-2.5-significance-thresholds-and-calculation-methodology/final_pm2_5methodology.pdf?sfvrsn=2). Accessed October 27, 2021.

**Rule 403 – Fugitive Dust:** This rule requires projects to prevent, reduce or mitigate fugitive dust emissions from a site. Rule 403 restricts visible fugitive dust to the project property line, restricts the net PM10 emissions to less than 50 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) and restricts the tracking out of bulk materials onto public roads. Additionally, projects must utilize one or more of the best available control measures (identified in the tables within the rule). Mitigation measures may include adding freeboard to haul vehicles, covering loose material on haul vehicles, watering, using chemical stabilizers and/or ceasing all activities. Finally, a contingency plan may be required if so determined by USEPA.

**Regulation XI – Source Specific Standards:** Regulation XI sets emissions standards for specific sources. The following is a list of rules which may apply to the Project:

**Rule 1113 – Architectural Coatings:** This rule requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories.

**Rule 1121 – Control of Nitrogen Oxides from Residential Type, Natural Gas-Fired Water Heaters:** This rule specifies  $\text{NO}_x$  emission limits for natural gas-fired water heaters, with heat input rates less than 75,000 British thermal units (BTUs) per hour.

**Rule 1186 – PM10 Emissions from Paved and Unpaved Roads, and Livestock Operations:** This rule applies to owners and operators of paved and unpaved roads and livestock operations. The rule is intended to reduce PM10 emissions by requiring the cleanup of material deposited onto paved roads, use of certified street sweeping equipment, and treatment of high-use unpaved roads (see also Rule 403).

**Regulation XIV – Toxics and Other Non-Criteria Pollutants:** Regulation XIV sets requirements for new permit units, relocations, or modifications to existing permit units which emit toxic air contaminants or other non-criteria pollutants. The following is a list of rules which may apply to the Project:

**Rule 1401 and Rule 1402 – New Source Review of Toxic Air Contaminants and Control of Toxic Air Contaminants from Existing Sources:** SCAQMD has adopted two rules to limit cancer and non-cancer health risks from facilities located within its jurisdiction. Rule 1401 (New Source Review of Toxic Air Contaminants) regulates new or modified facilities, and Rule 1402 (Control of Toxic Air Contaminants from Existing Sources) regulates facilities that are already operating. Rule 1402 incorporates the requirements of the AB 2588 program, including implementation of risk reduction plans for significant risk facilities.

**Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities:** This rule requires owners and operators of any demolition or renovation activity and the associated disturbance of asbestos-containing materials, any asbestos storage facility, or any active waste disposal site to implement work practice requirements to limit asbestos emissions from building demolition and renovation activities, including the removal and associated disturbance of asbestos-containing materials.



**Rule 1470 – Requirements for Stationary Diesel-Fueled Internal Combustion and Other Compression Ignition Engines:** This rule applies to stationary compression ignition (CI) engine greater than 50 brake horsepower and sets limits on emissions and operating hours. In general, new stationary emergency standby diesel-fueled engines greater than 50 brake horsepower are not permitted to operate more than 50 hours per year for maintenance and testing.

### ***Southern California Association of Governments***

The Southern California Association of Governments (SCAG) is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino and Imperial Counties, and addresses regional issues relating to transportation, the economy, community development and the environment. SCAG is the federally designated Metropolitan Planning Organization (MPO) for the majority of the Southern California region, and is the largest MPO in the nation.

Pursuant to Health & Safety Code Section 40460, SCAG is responsible for preparing and approving the portions of the AQMP relating to regional demographic projections and integrated regional land use, housing, employment and transportation programs, measures and strategies.<sup>77</sup> On September 3, 2020, the SCAG’s Regional Council formally adopted the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) also known as the Connect SoCal, which is an update to the previous 2016-2040 RTP/SCS.<sup>78</sup> Using growth forecasts and economic trends, the 2020–2045 RTP/SCS provides a vision for transportation throughout the region for the next several decades by considering the role of transportation in the broader context of economic, environmental, and quality-of-life goals for the future, identifying regional transportation strategies to address mobility needs. Additionally, the 2020-2045 RTP/SCS describes how the region can attain the GHG emission-reduction targets set by CARB by achieving an 8 percent reduction in per capita transportation GHG emissions by 2020 and a 19 percent reduction in per capita transportation emissions by 2035 compared to the 2005 level on a per capita basis.<sup>79</sup> Compliance with and implementation of the 2020-2045 RTP/SCS policies and strategies would have co-benefits of reducing per capita criteria air pollutant emissions (e.g. nitrogen dioxide, carbon monoxide, etc.) associated with reduced per capita vehicle miles traveled (VMT).

SCAG’s 2016-2040 RTP/SCS and the 2020-2045 RTP/SCS provides specific strategies for implementation. These strategies include supporting projects that encourage diverse job opportunities for a variety of skills and education, recreation and cultures and a full-range of shopping, entertainment and services all within a relatively short distance; encouraging employment development around current and planned transit stations and neighborhood commercial centers; encouraging the implementation of a “Complete Streets” policy that meets the needs of all users of the streets, roads and highways including bicyclists, children, persons

<sup>77</sup> SCAQMD, 2017. 2016 Final AQMP, page 4-42.

<sup>78</sup> Southern California Association of Governments (SCAG), 2020a. 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (2020-2045 RTP/SCS), Adopted September 3, 2020. [https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocial-plan\\_0.pdf?1606001176](https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocial-plan_0.pdf?1606001176). Accessed October 27, 2021.

<sup>79</sup> SCAG, 2020a. 2020-2045 RTP/SCS, September 2020.

with disabilities, motorists, electric vehicles, movers of commercial goods, pedestrians, users of public transportation, and seniors; and supporting alternative fueled vehicles.<sup>80</sup>

In addition, both the 2016-2040 RTP/SCS and the 2020-2045 RTP/SCS includes strategies to promote active transportation, support local planning and projects that serve short trips, promote transportation investments, investments in active transportation, more walkable and bikeable communities, that will result in improved air quality and public health, and reduced greenhouse gas emissions, and supports building physical infrastructure, regional greenways and first-last mile connections to transit, including to light rail and bus stations. The 2016-2040 RTP/SCS and the 2020-2045 RTP/SCS aligns active transportation investments with land use and transportation strategies, increase competitiveness of local agencies for federal and state funding, and to expand the potential for all people to use active transportation. CARB has accepted the SCAG GHG quantification determinations in the 2016-2040 RTP/SCS and the 2020-2045 RTP/SCS and both demonstrate achievement of the GHG emission reduction targets established by CARB.<sup>81,82</sup>

Although there are GHG emission reduction targets for passenger vehicles set by CARB for 2045, the 2020-2045 RTP/SCS GHG emission reduction trajectory shows that more aggressive GHG emission reductions are projected for 2045. By meeting and exceeding the SB 375 targets for 2020 and 2035, as well as achieving an additional 4.1-percent reduction in GHG from transportation-related sources in the ten years between 2035 and 2045, the 2020-2045 RTP/SCS is expected to fulfill and exceed its portion of SB 375 compliance with respect to meeting the State's GHG emission reduction goals.<sup>83</sup>

## 2.2.4 Local

### ***City of Santa Clarita General Plan***

Local jurisdictions, such as the City, have the authority and responsibility to reduce air pollution through their policy power and decision-making authority. Specifically, the City is responsible for the assessment and mitigation of air emissions resulting from its land use decisions. The City is also responsible for the implementation of transportation control measures as outlined in the AQMP. The AQMP assigns local governments certain responsibilities to assist the Air Basin in meeting air quality goals and policies. The City of Santa Clarita has identified air quality goals, policies, and implementation measures in its Conservation and Open Space Element of the 2011 General Plan. Applicable goals, policies, and objectives of the City's General Plan Conservation and Open Space element are specified below as being the most current standards.

<sup>80</sup> SCAG, 2020a. 2020-2045 RTP/SCS, September 2020, pages 69-72.

<sup>81</sup> SCAG, 2020a. 2020-2040 RTP/SCS, September 2020, page 51.

<sup>82</sup> CARB, 2020. Executive Order G-20-239 Southern California Association of Governments (SCAG) 2020 Sustainable Communities Strategy CARB Acceptance of GHG Quantification Determination, October 30. <https://ww2.arb.ca.gov/sites/default/files/2021-02/SCAG%202020%20SCS%20CARB%20Acceptance%20of%20GHG%20Quantification%20Determination%20Executive%20Order.pdf>. Accessed October 27, 2021.

<sup>83</sup> SCAG, 2020c. 2020-2045 RTP/SCS Public Health Technical Report, September, page 53. [https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocial\\_public-health.pdf?1606001755](https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocial_public-health.pdf?1606001755). Accessed October 27, 2021.

**Goal CO-7: Air Quality** Clean air to protect human health and support healthy ecosystems.

**Objective CO-7.1:** Reduce air pollution from mobile sources.

**Policy CO-7.1.1** Through the mixed land use patterns and multi-modal circulation policies set forth in the Land Use and Circulation Elements, limit air pollution from transportation sources.

**Policy CO-7.1.2:** Support the use of alternative fuel vehicles.

**Policy CO-7.1.3:** Support alternative travel modes and new technologies, including infrastructure to support alternative fuel vehicles, as they become commercially available.

**Objective CO 7.2:** Apply guidelines to protect sensitive receptors from sources of air pollution as developed by the CARB, where appropriate.

**Policy CO-7.2.1:** Ensure adequate spacing of sensitive land uses from the following sources of air pollution: high traffic freeways and roads; distribution centers; truck stops; chrome plating facilities; dry cleaners using perchloroethylene; and large gas stations, as recommended by CARB.

**Objective CO 7.3:** Coordinate with other agencies to plan for and implement programs for improving air quality in the South Coast Air Basin.

**Policy CO-7.3.1:** Coordinate with local, regional, state and federal agencies to develop and implement regional air quality policies and programs.

## 2.3 Existing Conditions

### 2.3.1 Regional Context

#### ***Criteria Air Pollutants***

The extent and severity of pollutant concentrations in the Air Basin are a function of the area's natural physical characteristics (weather and topography) and man-made influences (development patterns and lifestyle). Factors such as wind, sunlight, temperature, humidity, rainfall, and topography all affect the accumulation and dispersion of pollutants throughout the Air Basin, making it an area of high pollution potential. The Air Basin's meteorological conditions, in combination with regional topography, are conducive to the formation and retention of ozone, which is a secondary pollutant that forms through photochemical reactions in the atmosphere. Thus, the worst air pollution conditions throughout the Air Basin typically occur from June through September. These conditions are generally attributed to the seasonally light winds and shallow vertical atmospheric mixing, which reduce the potential for the dispersal of air pollutant emissions, thereby causing elevated air pollutant levels. Pollutant concentrations in the Air Basin vary with location, season, and time of day. Concentrations of ozone, for example, tend to be lower along the coast, higher in the near inland valleys, and lower in the far inland areas of the Air Basin and adjacent desert.<sup>84</sup> Table 2 above, shows the attainment status of the Air Basin for each criteria pollutant.

<sup>84</sup> SCAQMD, 2017. 2016 Final AQMP.

As shown in Table 2, the Air Basin is designated under Federal or State ambient air quality standards as nonattainment for ozone, PM<sub>10</sub>, and fine particulate matter PM<sub>2.5</sub>. The Los Angeles County portion of the Air Basin is designated as nonattainment for the federal lead standard; however, this is due to localized emissions from two lead-acid battery recycling facilities in the City of Vernon and the City of Industry that are no longer operating.<sup>85</sup>

As detailed in the AQMP, the major sources of air pollution in the Air Basin are divided into four major source classifications: point, and area stationary sources, and on-road and off-road mobile sources. Point and area sources are the two major subcategories of stationary sources.<sup>86</sup> Point sources are permitted facilities that contain one or more emission sources at an identified location (e.g., power plants, refineries, emergency generator exhaust stacks). Area sources consist of many small emission sources (e.g., residential water heaters, architectural coatings, consumer products, restaurant charbroilers and permitted sources such as large boilers) which are distributed across the region. Mobile sources consist of two main subcategories: On-road sources (such as cars and trucks) and off-road sources (such as heavy construction equipment).

### **Toxic Air Contaminants**

In addition to criteria pollutants, the SCAQMD periodically assesses levels of TACs in the Air Basin, as detailed in the regulatory section above. The greatest potential for TAC emissions during construction is related to diesel particulate matter emissions associated with heavy-duty equipment. During long-term operations, sources of DPM may include heavy duty diesel-fueled delivery trucks and stationary emergency generators.

## **2.3.2 Local Area Conditions**

### **Existing Ambient Air Quality**

The SCAQMD maintains a network of air quality monitoring stations located throughout the Air Basin to measure ambient pollutant concentrations. The monitoring station most representative of the Project Site is the Santa Clarita Valley Monitoring Station, located at 22224 Placerita Canyon Road Santa Clarita, CA 91321. Criteria pollutants monitored at this station include ozone, NO<sub>2</sub>, CO, and PM<sub>10</sub>. Additional monitoring stations were used to complete **Table 3, Ambient Air Quality in the Project Vicinity**, the West San Fernando Valley Monitoring Station was referenced for PM<sub>2.5</sub> data, located at 18330 Gault St, Reseda CA 91702. Lastly, the Central Los Angeles County Monitoring Station, located at 1630 North Main Street, Los Angeles, CA 90012, was referenced for Pb and SO<sub>2</sub> data. The most recent data available from the SCAQMD for this monitoring station are from years 2018 to 2020.<sup>87</sup> As shown in Table 3, the CAAQS and NAAQS were not exceeded in the Project Site vicinity for most pollutants between 2018 and 2020, except for O<sub>3</sub> and PM<sub>10</sub>.

<sup>85</sup> SCAQMD, Board Meeting, Agenda No. 30, Adopt the 2012 Lead State Implementation Plan for Los Angeles County, May 4, 2012. <http://beta.aqmd.gov/docs/default-source/clean-air-plans/lead-state-implementation-plan/adoption-of-2012-lead-sip.pdf?sfvrsn=2>. Accessed October 28, 2021.

<sup>86</sup> SCAQMD, 2017. 2016 Final AQMP, page 3-32.

<sup>87</sup> SCAQMD, Historical Data by Year, (2018-2020), <http://www.aqmd.gov/home/air-quality/air-quality-data-studies/historical-data-by-year>. Accessed July 2021.

**TABLE 3  
AMBIENT AIR QUALITY IN THE PROJECT VICINITY**

<b>Pollutant/Standard <sup>a</sup></b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Ozone, O<sub>3</sub> (1-hour)</b>			
Maximum Concentration (ppm)	0.132	0.128	0.148
Days > CAAQS (0.09 ppm)	21	34	44
<b>Ozone, O<sub>3</sub> (8-hour)</b>			
Maximum Concentration (ppm)	0.106	0.106	0.122
4 <sup>th</sup> High 8-hour Concentration (ppm)	0.097	0.101	0.106
Days > CAAQS (0.070 ppm)	52	56	73
Days > NAAQS (0.070 ppm)	52	56	73
<b>Nitrogen Dioxide, NO<sub>2</sub> (1-hour)</b>			
Maximum Concentration (ppm)	58.9	46.3	46.3
Days > CAAQS (0.18 ppm)	0	0	0
98 <sup>th</sup> Percentile Concentration (ppm)	37.9	35.3	35.9
Days > NAAQS (0.100 ppm)	0	0	0
<b>Nitrogen Dioxide, NO<sub>2</sub> (Annual)</b>			
Annual Arithmetic Mean (0.030 ppm)	10.9	9.1	9.4
<b>Carbon Monoxide, CO (1-hour)</b>			
Maximum Concentration (ppm)	1.0	1.5	1.2
Days > CAAQS (20 ppm)	0	0	0
Days > NAAQS (35 ppm)	0	0	0
<b>Carbon Monoxide, CO (8-hour)</b>			
Maximum Concentration (ppm)	0.8	1.2	0.8
Days > CAAQS (9.0 ppm)	0	0	0
Days > NAAQS (9 ppm)	0	0	0
<b>Sulfur Dioxide, SO<sub>2</sub> (1-hour)</b>			
Maximum Concentration (ppm)	17.9	10.0	3.8
Days > CAAQS (0.25 ppm)	0	0	0
99 <sup>th</sup> Percentile Concentration (ppm)	2.8	2.3	3.3
Days > NAAQS (0.075 ppm)	0	0	0
<b>Respirable Particulate Matter, PM<sub>10</sub> (24-hour)</b>			
Maximum Concentration (µg/m <sup>3</sup> )	49	62	48
Samples > CAAQS (50 µg/m <sup>3</sup> )	0	1	0
Samples > NAAQS (150 µg/m <sup>3</sup> )	0	0	0
<b>Respirable Particulate Matter, PM<sub>10</sub> (Annual)</b>			
Annual Arithmetic Mean (20 µg/m <sup>3</sup> )	23.4	18.4	22.5
<b>Fine Particulate Matter, PM<sub>2.5</sub> (24-hour)</b>			
Maximum Concentration (µg/m <sup>3</sup> )	31.0	30.00	27.60
98 <sup>th</sup> Percentile Concentration (µg/m <sup>3</sup> )	22.60	26.30	26.40
Samples > NAAQS (35 µg/m <sup>3</sup> )	0	0	0
<b>Fine Particulate Matter, PM<sub>2.5</sub> (Annual)</b>			
Annual Arithmetic Mean (12 µg/m <sup>3</sup> )	10.32	9.16	10.13
<b>Lead</b>			
Maximum 30-day average (µg/m <sup>3</sup> )	0.011	0.012	0.013
Samples > CAAQS (1.5 µg/m <sup>3</sup> )	0	0	0
Maximum 3-month rolling average (µg/m <sup>3</sup> )	0.011	0.010	0.011
Days > NAAQS (0.15 µg/m <sup>3</sup> )	0	0	0

## NOTES:

<sup>a</sup> ppm = parts per million; µg/m<sup>3</sup> = micrograms per cubic meter

SOURCE: SCAQMD, Historical Data by Year, (2018-2020), <http://www.aqmd.gov/home/air-quality/air-quality-data-studies/historical-data-by-year>. Accessed December 6, 2021.

### **Existing Area Health Risk**

The SCAQMD has prepared a series of maps that show regional trends in estimated outdoor inhalation cancer risk from toxic emissions, as part of an ongoing effort to provide insight into relative risks. The maps represent the estimated number of potential cancers per million people associated with a lifetime of breathing air toxics (24 hours per day outdoors for 70 years). The background potential cancer risk per million people in the Project Site area using the updated OEHHA methodology is estimated at 306 in one million (compared to an overall Basin Average Air Toxics Cancer Risk in MATES V of 455 in a million).<sup>88</sup> Generally, the risk from air toxics is lower near the coastline and increases inland, with higher risks concentrated near large diesel sources (e.g., freeways, airports, and ports).

### **Existing Site Emissions**

The Project Site is currently developed with two buildings, a mobile home, and a storage shed. However, the Project Site is not currently occupied. For the purposes of this analysis, no existing operational air quality emissions are assumed from the existing site because it is currently vacant. Therefore, existing operational air quality emissions are not required to be calculated and the Project's air quality emissions would be considered net new.

### **Sensitive Receptors and Locations**

Certain population groups, such as children, elderly, and acutely and chronically ill persons (especially those with cardio-respiratory diseases), are considered more sensitive to the potential effects of air pollution than others. As a result, certain land uses that are occupied by these population groups, such as residences, hospitals and schools, are considered to be air quality-sensitive land uses. The area surrounding the Project Site includes the Mulberry Mobile Home Park located approximately 25 meters to the north, residential uses to the east, approximately 65 meters, and limited commercial uses on Wiley Canyon Road and Calgrove Boulevard to the south, approximately 295 meters, I-5 lies adjacent to the Project Site, as shown in **Figure 2**, *Sensitive Receptor Locations Nearest to the Project Site*. All other air quality-sensitive uses are located at greater distances from the Project Site than the residences at the Mulberry Mobile Home Park located to the north and would experience lower air pollutant impacts from potential sources of pollutants from the Project Site due to atmospheric dispersion effects.

<sup>88</sup> SCAQMD, Multiple Air Toxics Exposure Study, MATES V Cancer Risk Interactive Map. [https://experience.arcgis.com/experience/79d3b6304912414bb21ebdde80100b23/page/home/?views=view\\_38%2Cview\\_1](https://experience.arcgis.com/experience/79d3b6304912414bb21ebdde80100b23/page/home/?views=view_38%2Cview_1). Accessed October 27, 2021.







## 3.0 Project Impacts

### 3.1 Thresholds of Significance

In assessing the Project's potential impacts related to air quality in this section, the City has determined to use Appendix G of the State CEQA Guidelines as its thresholds of significance. In accordance with the State CEQA Guidelines Appendix G (Appendix G), the Project would have a significant impact related to Air Quality if it would:

- a. Conflict with or obstruct implementation of the applicable air quality plan;
- b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard;
- c. Expose sensitive receptors to substantial pollutant concentrations; or
- d. Result in other emissions (such as those leading to odors) affecting a substantial number of people.

Pursuant to the State *CEQA Guidelines* (Section 15064.7), a lead agency may consider using, when available, significance thresholds established by the applicable air quality management district or air pollution control district when making determinations of significance. For purposes of this analysis, the City has determined to assess the potential air quality impacts of the Project in accordance with the most recent thresholds adopted by the SCAQMD in connection with its *CEQA Air Quality Handbook*, *Air Quality Analysis Guidance Handbook*, and subsequent SCAQMD guidance, as discussed below, and this assessment satisfies the considerations raised in the *Thresholds Guide*.<sup>89</sup>

#### 3.1.1 Conflict with or obstruct implementation of the applicable air quality plan

There are no applicable numerical thresholds of significance for this consistency analysis. In accordance with the SCAQMD's CEQA Air Quality Handbook, the following criteria were used to evaluate the Project's consistency with the SCAQMD's 2016 AQMP, and the County's and City's General Plan Air Quality Elements:

- Criterion 1: Will the Project result in any of the following:
  - An increase in the frequency or severity of existing air quality violations; or
  - Cause or contribute to new air quality violations; or
  - Delay timely attainment of air quality standards or the interim emission reductions specified in the AQMP.
- Criterion 2: Will the Project exceed the assumptions utilized in preparing the AQMP?

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<sup>89</sup> While the SCAQMD CEQA Air Quality Handbook contains significance thresholds for lead, project construction and operation would not include sources of lead emissions; unleaded fuel and unleaded paints have virtually eliminated lead emissions from commercial land use projects such as the Project. The Project would not exceed the significance thresholds for lead. As a result, lead emissions are not further evaluated in this technical report.

The Project's potential impacts with respect to these criteria are discussed to assess the consistency with the SCAQMD's 2016 AQMP and applicable City General Plan Conservation and Open Space Element plans and policies.

### 3.1.2 Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard

A significant impact may occur if a project would add a cumulatively considerable contribution of a federal or state non-attainment pollutant. The Air Basin is currently in non-attainment for ozone, PM10, and PM2.5. SCAQMD methodology recommends that significance thresholds be used to determine the potential cumulative impacts to regional air quality along with a project's consistency with the current AQMP.

The SCAQMD has established numerical significance thresholds for construction and operational activities. The numerical thresholds are based on the recognition that the Air Basin is a distinct geographic area with a critical air pollution problem for which ambient air quality standards have been promulgated to protect public health.<sup>90</sup> Given that construction impacts are temporary and limited to the construction phase, the SCAQMD has established numerical significance thresholds specific to construction activity. For determining the significance of operational emissions, the SCAQMD has established numerical indicators as significance thresholds based, in part, on Section 182(e) of the CAA, which sets 10 tons per year of VOC as a significance level for stationary source emissions in extreme non-attainment areas for ozone.<sup>91</sup> As shown in Table 2, the Air Basin is designated as extreme non-attainment for ozone. The SCAQMD converted this significance level to pounds per day for ozone precursor emissions (10 tons per year  $\times$  2,000 pounds per ton  $\div$  365 days per year = 55 pounds per day). The numeric indicators for other pollutants are also based on federal stationary source significance levels. Based on the thresholds in the SCAQMD CEQA Air Quality Handbook,<sup>92</sup> the Project would potentially result in a significant impact of a federal or state non-attainment pollutant if emissions of ozone precursors (VOC and NO<sub>x</sub>), PM10, or PM2.5 would exceed the values shown in **Table 4**, *SCAQMD Regional Emissions Thresholds*.

**TABLE 4**  
**SCAQMD REGIONAL EMISSIONS THRESHOLDS (POUNDS PER DAY)**

Activity	VOC	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM10	PM2.5
Construction	75	100	550	150	150	55
Operations	55	55	550	150	150	55

SOURCE: South Coast Air Quality Management District, Air Quality Significance Thresholds, 2019.

<sup>90</sup> SCAQMD, 1993. CEQA Air Quality Handbook.

<sup>91</sup> SCAQMD, 1993. CEQA Air Quality Handbook, page 6-1.

<sup>92</sup> SCAQMD, 2019. Air Quality Significance Thresholds. <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2>. Accessed October 28, 2021.

### 3.1.3 Expose sensitive receptors to substantial pollutant concentrations

In addition, the SCAQMD has developed a methodology to assess the potential for localized emissions to cause an exceedance of applicable ambient air quality standards or ambient concentration limits. Impacts would be considered significant if the following would occur:

- Maximum daily localized emissions of NO<sub>x</sub> and/or CO during construction or operation are greater than the applicable localized significance thresholds, resulting in predicted ambient concentrations in the vicinity of the Project Site greater than the most stringent ambient air quality standards for NO<sub>2</sub> and/or CO.<sup>93</sup>
- Maximum daily localized emissions of PM<sub>10</sub> and/or PM<sub>2.5</sub> during construction are greater than the applicable localized significance thresholds, resulting in predicted ambient concentrations in the vicinity of the Project Site to exceed 10.4 µg/m<sup>3</sup> over 24 hours (SCAQMD Rule 403 control requirement) and 1.0 µg/m<sup>3</sup> for PM<sub>10</sub> over an annual period.
- Maximum daily localized emissions of PM<sub>10</sub> and/or PM<sub>2.5</sub> during operation are greater than the applicable localized significance thresholds, resulting in predicted ambient concentrations in the vicinity of the Project Site to exceed 2.5 µg/m<sup>3</sup> over 24 hours (SCAQMD Rule 1303 allowable change in concentration) and 1.0 µg/m<sup>3</sup> for PM<sub>10</sub> over an annual period.
- The following conditions would occur at an intersection or roadway within one-quarter mile of a sensitive receptor:
  - The Project would cause or contribute to an exceedance of the CAAQS 1-hour or 8-hour CO standards of 20 or 9.0 ppm, respectively.

The SCAQMD has established screening criteria that can be used to determine the maximum allowable daily emissions that would satisfy the localized significance thresholds and therefore not cause or contribute to an exceedance of the applicable ambient air quality standards or ambient concentration limits without project-specific dispersion modeling.<sup>94</sup> This analysis uses the screening criteria to evaluate impacts from localized emissions where applicable.

Based on the SCAQMD thresholds, the Project would cause a significant impact by exposing sensitive receptors to toxic air contaminants if any of the following would occur:<sup>95</sup>

- The Project emits carcinogenic materials or TACs that exceed the maximum incremental cancer risk of ten in one million or an acute or chronic hazard index of 1.0. Acute and chronic hazard index represent the one-hour and lifetime health impacts respectively

### 3.1.4 Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people

With respect to other emissions, such as odors, the Project would be considered significant if it created objectionable odors affecting a substantial number of people. In addition, based on the thresholds in the SCAQMD CEQA Air Quality Handbook,<sup>96</sup> the Project would potentially result

<sup>93</sup> SCAQMD, 2008. Final Localized Significance Threshold Methodology.

<sup>94</sup> SCAQMD, 2008. Final Localized Significance Threshold Methodology.

<sup>95</sup> SCAQMD, 1993. CEQA Air Quality Handbook.

<sup>96</sup> SCAQMD, 2019. Air Quality Significance Thresholds.

in a significant impact of an attainment, maintenance, or unclassified pollutant if emissions of CO or SO<sub>2</sub> would exceed the values shown in Table 4.

## 3.2 Methodology

The evaluation of potential impacts to regional and local air quality that may result from the construction and long-term operations of the Project is discussed below.

### 3.2.1 Consistency with General Plan – Conservation and Open Space Element

As discussed previously, the City’s General Plan Conservation and Open Space Element includes Citywide goals, objectives, and policies that guide the City in the implementation of its air quality improvement programs and strategies. Goals, objectives, and policies of the City’s General Plan Conservation and Open Space Element relevant to the Project include reducing pollution and mobile source emissions through coordinated land use, transportation and air quality planning, and minimizing fugitive dust from different sources, activities, and uses, as well as reducing air pollutant emissions consistent with the AQMP. The analysis below provides a discussion of the relevant provisions in the City’s General Plan Conservation and Open Space Element with the Project to determine the whether the Project would be consistent with those provisions.

### 3.2.2 Consistency with Air Quality Management Plan

The SCAQMD is required, pursuant to the CAA, to reduce emissions of criteria pollutants for which the Air Basin is in non-attainment of the NAAQS (e.g., ozone and PM<sub>2.5</sub>).<sup>97</sup> The SCAQMD’s 2016 AQMP contains a comprehensive list of pollution control strategies directed at reducing emissions and achieving NAAQS related to these pollutants, including transportation control strategies from SCAG’s 2016-2040 RTP/SCS designed to reduce VMT.<sup>98</sup> The 2016 AQMP control strategies were developed, in part, based on regional growth projections prepared by SCAG.<sup>99</sup> For this reason, projects whose growth is consistent with the assumptions used in the 2016 AQMP will be deemed to be consistent with the 2016 AQMP because their growth has already been included in the growth projections utilized in the formulation of the control strategies in the 2016 AQMP. Thus, emissions from projects, uses, and activities that are consistent with the applicable growth projections and control strategies used in the development of the 2016 AQMP would not jeopardize attainment of the air pollutant reduction goals identified in the AQMP even if their emissions exceed the SCAQMD’s numeric indicators.<sup>100</sup> As noted above, the 2016 AQMP has been adopted by the SCAQMD and CARB. Therefore, consistency

<sup>97</sup> The Los Angeles County portion of the Air Basin is designated as nonattainment for the federal lead standard; however, this was due to localized emissions from two lead-acid battery recycling facilities in the City of Vernon and the City of Industry that are no longer operating. For reference see South Coast Air Quality Management District, Board Meeting, Agenda No. 30, Adopt the 2012 Lead State Implementation Plan for Los Angeles County, May 4, 2012. <http://beta.aqmd.gov/docs/default-source/clean-air-plans/lead-state-implementation-plan/adoption-of-2012-lead-sip.pdf?sfvrsn=2>, Accessed October 27, 2021.

<sup>98</sup> SCAQMD, 2017. 2016 Final AQMP, page ES-6, 4-42.

<sup>99</sup> SCAQMD, 2017. 2016 Final AQMP, page 4-42 to 4-44.

<sup>100</sup> SCAQMD, 1993. CEQA Air Quality Handbook, page 12-1.

with the 2016 AQMP is evaluated based on consistency with its applicable growth projections and emission control strategies.

### 3.2.3 Construction Emissions

Construction air quality impacts were assessed based on the incremental increase in emissions compared to baseline conditions. Under CEQA, the baseline environmental setting is defined as a description of the physical environmental conditions as they exist at the time environmental analysis is commenced.

Project construction activities that would have the potential to create regional air quality impacts including the use of off-road equipment for construction activities, vehicle trips generated by construction workers, vendor trucks, and haul trucks traveling to and from the Project Site and building activities including the application of paint and other surface coatings. The Project's daily regional criteria pollutant emissions during construction have been estimated by assuming a conservative scenario for construction activities (i.e., assuming all construction occurs at the earliest feasible date) and applying the mobile source and fugitive dust emissions factors. The emissions have been estimated using the CalEEMod software, an emissions inventory software program recommended by the SCAQMD and the CARB on-road vehicle emissions factor model (EMFAC2021). CalEEMod is based on outputs from the CARB off-road emissions factor (OFFROAD) and EMFAC models, which are emissions estimation models developed by CARB and used to calculate emissions from construction activities, including on- and off-road vehicles. Within CalEEMod, fugitive dust emissions include the application of water as a control measure consistent with SCAQMD Rule 403, which applies to the Project's construction activities. Fugitive dust control measures are not mitigation under CEQA because they are regulatory compliance. Construction phasing details are provided in Exhibit A of this technical report.

The input values used in this analysis were adjusted to be Project-specific based on equipment types and the construction schedule. The Project is not expected to export soil however approximately 85,000 cubic yards of soil would be imported on-site. Worker, vendor and concrete truck trips estimates were based on information obtained from the Applicant. Emissions from on-road vehicles were estimated outside of CalEEMod using EMFAC2021 emission factors.

Emissions from Project construction activities were estimated based on the construction phase in which the activity would be occurring. The maximum daily emissions were predicted values for the worst-case day and do not represent the emissions that would occur for every day of Project construction. The maximum daily emissions were compared to SCAQMD daily regional numeric indicators.

Project construction activities that would have the potential to create local air quality impacts include fugitive dust from grading, excavation and demolition and building activities such as the application of paint and other surface coatings. The localized effects from the on-site portion of the Project's construction emissions were evaluated at the nearby sensitive receptor locations that would be potentially impacted by Project construction in accordance with the SCAQMD's *Final*

*Localized Significance Threshold Methodology* (June 2003, revised July 2008).<sup>101</sup> The localized significance thresholds only address NO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions. The SCAQMD has established screening criteria that can be used to determine the maximum allowable daily emissions that would satisfy the localized significance thresholds and therefore not cause or contribute to an exceedance of the applicable ambient air quality standards without the need for Project-specific dispersion modeling. The localized analysis for the Project is based on this SCAQMD screening criteria. The Project Site is approximately 30 acres; however, approximately 18 acres of the Project Site would be utilized, the remainder of the site will be left as open space. It was assumed that no more than 5-acres would be disturbed on any given day. The Project Site is located in the SCAQMD's Santa Clarita Valley Source Receptor Area 13. In order to provide a conservative assessment of localized construction and operational emissions, the screening criteria used in the analysis were those applicable for a 5-acre site in the Santa Clarita Valley area with sensitive receptors located 25 meters away, which accounts for all adjacent off-site sensitive receptors.<sup>102,103</sup> The maximum net daily emissions from construction of the Project were compared to these screening criteria.

In addition, according to the SCAQMD *Final Localized Significance Threshold Methodology*, “projects whose calculated emission budgets for the proposed construction or operational activities are above the LST emission levels found in the LST mass rate look-up tables should not assume that the project would necessarily generate adverse impacts. Detailed air dispersion modeling may demonstrate that pollutant concentrations are below localized significant levels.”<sup>104</sup> Therefore, for any of the pollutants that the Project exceeds the applicable LSTs, the localized significance for Project air pollutant emissions was determined by performing dispersion modeling to determine if the pollutant concentrations would exceed relevant significance thresholds established by the SCAQMD. The analysis incorporates the estimated construction emissions and dispersion modeling using the USEPA AMS/EPA Regulatory Model (AERMOD) model, version 21112, with meteorological data from the closest SCAQMD monitoring station, which is located in Van Nuys.

Project construction is estimated to start in 2023, but may commence at a later date. If this occurs, construction impacts would be lower than those analyzed here due to the use of a more energy-efficient and cleaner burning construction vehicle fleet mix, pursuant to State regulations that require vehicle fleet operators to phase-in less polluting heavy-duty equipment. As a result, should Project construction commence at a later date than analyzed in this analysis, air quality impacts would be lower than the impacts disclosed herein.

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<sup>101</sup> SCAQMD, 2008. *Final Localized Significance Threshold Methodology*.

<sup>102</sup> SCAQMD, 2008. *Final Localized Significance Threshold Methodology*, page 3-3. “Projects with boundaries located closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters.”

<sup>103</sup> Using the screening criteria applicable for a 5-acre site is conservative because the localized significance thresholds are project site-dependent and the allowable thresholds increase with increasing project size. Therefore, using a 5-acre site threshold instead of the Project Site's proposed development area of 18 acres yields a more stringent analysis.

<sup>104</sup> SCAQMD, 2008. *Final Localized Significance Threshold Methodology*, page 1-2.

### 3.2.4 Operational Emissions

The Project's operational emissions were estimated using the CalEEMod software, with EMFAC values updated to reflect the EMFAC2021 emission factors for mobile emissions. CalEEMod was used to forecast the daily regional criteria pollutant emissions from on-site area and stationary sources that would occur during long-term Project operations. For mobile sources, the estimated vehicle trips were provided for the Project uses in a project specific traffic study.<sup>105</sup>

Operation of the Project has the potential to generate criteria pollutant emissions through vehicle and truck trips traveling to and from the Project Site. In addition, emissions would result from area sources located on-site such as natural gas combustion from water heaters, boilers, and cooking stoves, landscaping equipment, and use of consumer products. The Project is not expected to contain any large stationary combustion equipment such as large boilers or combustion turbines. Natural gas usage factors in CalEEMod are based on the CEC 2002 CEUS data adjusted to reflect more recent Title 24 improvements.

As discussed above, for the purposes of this analysis, no existing operational AQ emissions are assumed because the site is currently vacant. Therefore, existing operational AQ emissions are not required to be calculated and the Project's AQ emissions would conservatively be considered net new. The maximum daily emissions from operation of the Project are compared to the SCAQMD daily regional numeric indicators.

The localized effects from the on-site portion of the maximum daily net emissions from Project operation were evaluated at the nearby sensitive receptor locations that would be potentially impacted by operation of the Project according to the SCAQMD's *Final Localized Significance Threshold Methodology* (June 2003, revised July 2008).<sup>106</sup> The localized impacts from operation of the Project were assessed similar to the construction emissions, as discussed previously.

The greatest quantities of CO are produced from motor vehicle combustion and are usually concentrated at or near ground level because they do not readily disperse into the atmosphere, particularly under cool, stable (i.e., low or no wind) atmospheric conditions. Localized areas where ambient concentrations exceed State and/or federal standards are termed "CO hotspots." The potential for the Project to cause or contribute to the formation of off-site CO hotspots was evaluated based on prior dispersion modeling of the four busiest intersections in the Air Basin that the SCAQMD conducted for its CO Attainment Demonstration Plan in the AQMP. The analysis compares the intersections with the greatest peak-hour traffic volumes that would be impacted by the Project to the intersections modeled by the SCAQMD. Project-impacted intersections with peak-hour traffic volumes that would be lower than the intersections modeled by the SCAQMD, in conjunction with lower background CO levels, would result in lower overall CO concentrations as compared to the SCAQMD-modeled values to maintain attainment status in its AQMP.

<sup>105</sup> Stantec, 2022. Wiley Canyon Mixed-Use Traffic Analysis, July 11.

<sup>106</sup> SCAQMD, 2008. Final Localized Significance Threshold Methodology.

### 3.2.5 Toxic Air Contaminant Impacts

#### ***Interstate 5 Freeway***

According to CARB guidance, mobile sources of emissions on freeways generate carcinogenic TACs that constitute the majority of the known health risk from motor vehicle traffic.<sup>107</sup> These TACs include diesel PM emitted from diesel-fueled trucks, and benzene and 1,3-butadiene from emitted from gasoline-fueled passenger vehicles. TAC exposure and health risk drops substantially within the first 300 feet from a freeway and generally recommends avoiding the siting of new sensitive land uses within 500 feet of a freeway, urban roads with 100,000 vehicles per day, or rural roads with 50,000 vehicles per day. The guidance also recognizes that local planning agencies have a responsibility to balance other considerations, including housing and transportation needs, economic development priorities and other quality of life issues and to consider site-specific project design features that reduce air pollution exposures. In addition, the guidance recognizes that health risks from mobile sources, in particular diesel PM, would decrease over time as cleaner technology phases in.

The Project Site is located between Wiley Canyon Road and Interstate 5 (I-5) Freeway, south of Wabuska Street and north of Calgrove Boulevard. The western portion of the Project Site towards the I-5 Freeway would be developed with townhomes with enhanced elevations and no windows or decks facing the freeway. The closest lane of traffic on the I-5 Freeway would be approximately 66 feet to 115 feet from the Project Site property line where development would occur. Due to the proximity of the Project Site to the I-5 an assessment of air quality impacts to the future Project occupants from emissions generated by vehicles and trucks traveling on the I-5 Freeway were evaluated. Detailed parameters and calculations for the Interstate 5 Freeway HRA are provided in Exhibit D.

#### ***Project***

The greatest potential for TAC emissions during construction of the Project would be related to DPM emissions associated with heavy-duty equipment during excavation and grading activities. Construction activities associated with the Project would be sporadic, transitory, and short-term in nature (approximately 24 months). To assess potential health risk impacts (cancer, or other acute or chronic conditions) related to TACs exposure from airborne emissions during Project construction, a quantitative HRA was prepared. The HRA evaluated the potential for increased health risks for off-site sensitive receptors due to the Project construction activities. Detailed parameters and calculations for the Project HRA are provided in Exhibit E.

The construction HRA was performed in accordance with the revised OEHHA *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments* (OEHHA Guidance) (OEHHA, 2015). The analysis incorporated the estimated construction emissions and dispersion modeling using the USEPA AMS/EPA Regulatory Model (AERMOD) model with meteorological data from the closest SCAQMD meteorological monitoring station.

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<sup>107</sup> CARB,2005, Air Quality and Land Use Handbook: A Community Health Perspective, April 2005.



For this risk assessment, AERMOD dispersion model output was converted into specific cancer risks and non-cancer chronic health hazard impacts. Health impacts addressed construction DPM emissions and the effects on nearby sensitive uses (residential and school). Consistent with OEHHA methodology, health impact calculations take into account higher estimates of cancer potency during early life exposures and to use different assumptions for breathing rates and length of residential exposures (OEHHA, 2015).

During long-term operations of the Project, TACs could be emitted as part of periodic maintenance operations, routine cleaning, periodic painting, etc., and from periodic visits from delivery trucks and service vehicles. However, these events are expected to be occasional and result in minimal emissions exposure to off-site sensitive receptors. As the Project consists of residential uses, commercial uses, and natural and improved open space uses, the Project would not include sources of substantial TAC emissions identified by the SCAQMD or CARB siting recommendations.<sup>108, 109</sup> Thus, a qualitative analysis is appropriate for assessing the Project's operational emissions.

### 3.2.6 Cumulative Impacts

As discussed in the Project traffic study, there are four related projects identified in the vicinity of the Project. The nearest related project is the Warner/Ranch Lyons Canyon project located approximately 350 feet east and across Interstate 5. The next closest related project is the Valley Street Condos located approximately 1.10 miles northeast of the Project.

The SCAQMD CEQA Air Quality Handbook states that the “Handbook is intended to provide local governments, project proponents, and consultants who prepare environmental documents with guidance for analyzing and mitigating air quality impacts of projects.”<sup>110</sup> The SCAQMD CEQA Air Quality Handbook also states that “[f]rom an air quality perspective, the impact of a project is determined by examining the types and levels of emissions generated by the project and its impact on factors that affect air quality. As such, projects should be evaluated in terms of air pollution thresholds established by the District.”<sup>111</sup> The SCAQMD has also provided guidance on an acceptable approach to addressing the cumulative impacts issue for air quality as discussed below:<sup>112</sup>

*As Lead Agency, the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR... Projects that exceed the Project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance*

<sup>108</sup> SCAQMD, 2005. Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning, Table 2-3.

<sup>109</sup> CARB, 2005. Air Quality and Land Use Handbook: A Community Health Perspective, Table 1-1.

<sup>110</sup> SCAQMD, 1993. CEQA Air Quality Handbook.

<sup>111</sup> SCAQMD, 1993. CEQA Air Quality Handbook.

<sup>112</sup> SCAQMD, 2003. White Paper on Potential Control Strategies to Address Cumulative Impacts From Air Pollution, Appendix A, page D-3, April. <http://www.aqmd.gov/docs/default-source/Agendas/Environmental-Justice/cumulative-impacts-working-group/cumulative-impacts-white-paper-appendix.pdf?sfvrsn=4>. Accessed October 28, 2021.

*thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.*

Therefore, consistent with accepted and established SCAQMD cumulative impact evaluation methodologies, the potential for the Project to result in cumulative impacts from regional emissions is assessed based on the SCAQMD thresholds.

### 3.3 Project Design Features

No specific Project Design Features are proposed with regard to air quality.

### 3.4 Analysis of Project Impacts

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**Threshold 1** Conflict with or obstruct implementation of the applicable air quality plan.

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#### ***Impact 1***

**Implementation of the Project would not conflict with or obstruct implementation of the applicable air quality plan. (*Less than Significant with Mitigation Incorporated*).**

#### **SCAQMD CEQA Air Quality Handbook Policy Analysis**

The following analysis addresses the Project's consistency with applicable SCAQMD and SCAG policies, inclusive of regulatory compliance. In accordance with SCAQMD's CEQA Air Quality Handbook, Chapter 12, the following criteria are required to be addressed to determine the Project's consistency with applicable SCAQMD and SCAG policies:

- Criterion 1: Will the Project result in any of the following:
  - An increase in the frequency or severity of existing air quality violations; or
  - Cause or contribute to new air quality violations; or
  - Delay timely attainment of air quality standards or the interim emission reductions specified in the AQMP.
- Criterion 2: Will the Project exceed the assumptions utilized in preparing the AQMP.

The Project's potential impacts with respect to these criteria are discussed to assess the consistency with the SCAQMD's 2016 AQMP and the applicable City General Plan Conservation and Open Space Element plans and policies.

#### **Criterion 1**

With respect to the first criterion, localized concentrations of NO<sub>2</sub> as NO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub> have been analyzed for the Project. SO<sub>2</sub> emissions would be negligible during construction and long-term operations and, therefore, would not have the potential to cause or effect a violation of the SO<sub>2</sub> ambient air quality standard. Since VOCs are not a criteria pollutant, there is no ambient standard or localized threshold for VOCs. However, due to the role VOCs play in O<sub>3</sub> formation, it is classified as a precursor pollutant, and only a regional emissions threshold has been established.

The Project's criteria air pollutant emissions during construction and operations were analyzed: (1) to ascertain potential effects on localized concentrations; and (2) to determine if there is a potential for emissions to cause or effect a violation of the ambient air quality standards. As shown in Table 8, localized construction emissions of PM10 and PM2.5 would exceed the localized significance thresholds for PM10 and PM2.5. With implementation of Mitigation Measure AIR-1, localized construction emissions of PM10 and PM2.5 would be mitigated to less than significant as shown in Table 11. For operations, as shown in Table 9, localized operational emissions of NO<sub>x</sub>, CO, PM10, and PM2.5 emissions would not exceed the SCAQMD-recommended localized significance thresholds at sensitive receptors in proximity to the Project Site.

The Project would not introduce any substantial stationary sources of emissions; therefore, CO is the appropriate benchmark pollutant for assessing local area air quality impacts from post-construction motor vehicle operations.<sup>113</sup> As indicated below in Impact 3, no intersections would result in a CO hotspot in excess of the ambient air quality standards, and impacts would be less than significant. Accordingly, the Project would not increase the frequency or severity of an existing CO violation or cause or contribute to new CO violations.

**Therefore, in response to Criterion 1, with implementation of Mitigation Measure AIR-1, the Project's localized construction emissions of PM10 and PM2.5 would be mitigated to less than significant, and the Project would not increase the frequency or severity of an existing violation or cause or contribute to new violations for ozone and impacts regarding the timely attainment of air quality standards or interim emission reductions specified in the AQMP would be less than significant with mitigation.**

## Criterion 2

With respect to the second criterion for determining consistency with AQMP growth assumptions, the projections in the AQMP for achieving air quality goals are based on assumptions in SCAG's 2016-2040 RTP/SCS regarding population, housing, and growth trends. Determining whether or not a project exceeds the assumptions reflected in the AQMP involves the evaluation of consistency with applicable population, housing, and employment growth projections and appropriate incorporation of AQMP control measures. The following discussion provides an analysis with respect to these measures.

As discussed above, the SCAQMD has adopted a series of AQMPs to lead the Air Basin into compliance with several criteria pollutant standards and other federal requirements. The 2016 AQMP relied on emissions forecasts based on the demographic and economic growth projections provided by SCAG's 2016-2040 RTP/SCS in devising its control strategies for reducing emissions of ozone and PM2.5 to meet five NAAQS.<sup>114</sup> SCAG is charged by California law to prepare and approve "the portions of each AQMP relating to demographic projections and integrated regional land use, housing, employment, and transportation programs, measures and strategies."<sup>115</sup> The SCAQMD recommends that, when determining whether a project is consistent

<sup>113</sup> SCAQMD, 1993. CEQA Air Quality Handbook, Chapter 12, Assessing Consistency with Applicable Regional Plans, April.

<sup>114</sup> SCAQMD, 2017. 2016 Final AQMP, pages ES-6, 3-1, 3-3, 3-10, 3-17.

<sup>115</sup> SCAQMD, 2017. 2016 Final AQMP, page 4-42.

with the current AQMP, the lead agency assess whether the project would directly obstruct implementation of the plan by impeding the SCAQMD's efforts to achieve attainment with respect to any criteria pollutant for which it is currently not in attainment of the NAAQS and CAAQS (e.g., ozone, PM10, and PM2.5) and whether it is consistent with the demographic and economic assumptions (typically land use related, such as employment and population/residential units) upon which the plan is based.<sup>116</sup> Projects whose growth is included in the projections used in the formulation of the AQMP are considered to be consistent with the plan and not to interfere with its attainment.<sup>117</sup>

The Project would not obstruct implementation of the 2016 AQMP for, as discussed below, its construction and operational emissions would be less than significant. The Project would comply with applicable required fleet rules and control strategies to reduce on-road truck emissions (i.e., 13 CCR, Section 2025 [CARB Truck and Bus regulation]), and other applicable SCAQMD rules specified and incorporated in the 2016 AQMP. As discussed under Methodology, projects, uses, and activities that are consistent with the applicable growth projections and control strategies used in the development of the AQMP would not jeopardize attainment of the air quality levels identified in the AQMP. As discussed below, compliance with the applicable required fleet rules and control strategies and requirements would render it consistent with, and meet or exceed, the AQMP requirements for control strategies intended to reduce emissions from construction equipment and activities. Thus, the Project's criteria pollutant emissions would not cause the Air Basin's air quality to worsen so as to impede the SCAQMD's efforts to achieve attainment with respect to any criteria pollutant for which it is currently not in attainment of the NAAQS and CAAQS (e.g., ozone, PM10, and PM2.5),<sup>118</sup> or to cause the Air Basin to deteriorate from its current attainment status with respect to any other criteria pollutant emissions.

As further discussed below, the Project would also be affirmatively consistent with applicable 2016 AQMP control strategies. The Project incorporates into its design appropriate control strategies set forth in the 2016 AQMP for achieving its emission reduction goals, and would be consistent with the demographic and economic assumptions upon which the plan is based.

## **Construction**

### **Control Strategies**

During its construction phase, the Project would ensure compliance with CARB's requirements to minimize short-term emissions from on-road and off-road diesel equipment, and with SCAQMD's regulations such as Rule 403 for controlling fugitive dust and Rule 1113 for controlling VOC emissions from architectural coatings. Furthermore, the Project would utilize construction contractors in compliance with State on-road and off-road vehicle rules, including the ATCM that limits heavy-duty diesel motor vehicle idling to five minutes at any location (Title 13 CCR, Section 2485), the Truck and Bus regulation that reduces NO<sub>x</sub>, PM10, and PM2.5

<sup>116</sup> SCAQMD, 1993. CEQA Air Quality Analysis Handbook, pages 12-2, 12-3.

<sup>117</sup> SCAQMD, 1993. CEQA Air Quality Handbook, page 12-1.

<sup>118</sup> The Los Angeles County portion of the Air Basin is designated as nonattainment for the federal lead standard; however, this was due to localized emissions from two lead-acid battery recycling facilities in the City of Vernon and the City of Industry that are no longer operating. For reference see South Coast Air Quality Management District, Board Meeting, Agenda No. 30, Adopt the 2012 Lead State Implementation Plan for Los Angeles County, May 4, 2012.

emissions from existing diesel vehicles operating in California (13 CCR, Section 2025) and the In-Use Off-Road Diesel Fueled Fleets regulation that reduces emissions by the installation of diesel soot filters and encouraging the retirement, replacement, or repower of older, dirtier engines with newer emission controlled models (13 CCR, Section 2449). The Project's construction contractor would be required to comply with these regulatory control measures. Compliance with these regulatory control measures would ensure the Project would not conflict with AQMP control strategies, such as the NO<sub>x</sub> and PM<sub>10</sub>/PM<sub>2.5</sub> reduction measures MOB-08 (Accelerated Retirement of Older On-Road Heavy-Duty Vehicles) and MOB-10 (Extension of the Surplus Off-Road Opt-In for NO<sub>x</sub> Provision for Construction/Industrial Equipment) in the 2016 AQMP, intended to reduce emissions from construction equipment and activities. Impacts would be less than significant with implementation of Mitigation Measure AIR-1.

### Growth Projections

The Project would generate short-term construction jobs, but these jobs would not necessarily bring new construction workers or their families into the region, since construction workers are typically drawn from an existing regional pool who travel among construction sites within the region. Construction workers are not typically brought from other regions to work on developments such as the Project. Moreover, these jobs would be relatively small in number and temporary in nature. Therefore, the Project's construction jobs would not conflict with the long-term employment or population projections upon which the 2016 AQMP is based.

## Operations

### Control Strategies and Policy Consistency

The 2016 AQMP was prepared to accommodate growth, reduce the levels of pollutants within the areas under the jurisdiction of SCAQMD, return clean air to the region, and minimize the impact on the economy. Projects that are considered consistent with the AQMP would not interfere with attainment because this growth is included in the projections used in the formulation of the AQMP.

The Project design and land uses render it consistent with the 2016 AQMP during operations. As discussed above, the 2016 AQMP includes transportation control strategies from the 2016-2040 RTP/SCS that are intended to reduce VMT and resulting regional mobile source emissions. The majority of these strategies are to be implemented by cities, counties, and other regional agencies such as SCAG and SCAQMD, although some can be furthered by individual development projects.

The Project location would support land use and transportation control strategies related to reducing vehicle trips for patrons and employees by co-locating residential and commercial uses and by increasing commercial density near public transit. In addition, as described in the traffic analysis, the Project would provide a Class 1 trail from the Project Site south on to Calgrove Boulevard which will connect cyclists at the Project Site to other parts of the City with existing bicycle infrastructure.<sup>119</sup> Existing bicycle facilities include an existing Class II bike lane on Calgrove Boulevard east of Wiley Canyon Road and on Wiley Canyon Road north of Lyons Avenue. Bicycle parking and alternative fueled vehicle spaces would be provided at the Project Site consistent with the 2019 Title 24 Building Energy Efficiency Standards and CALGreen

<sup>119</sup> Stantec, 2022. Wiley Canyon Mixed-Use Traffic Analysis, July 11.

Code. The Project Site additionally has access to four existing local Santa Clarita Transit routes (Line 4, Line 5, Line 6, and Line 14). Additionally, the Newhall Metrolink station is located approximately 2.5 miles northeast and the McBean Regional Transit Center is located approximately 3 miles from the Project Site. Thus, the Project would result in reduced VMT, and reduced associated transportation-related air pollutant emissions, as compared to the statewide and Air Basin averages. This analysis provides evidence of the Project's consistency with the 2016 AQMP's goal of reducing mobile source emissions as a source of NO<sub>x</sub> and PM<sub>2.5</sub>.

### Growth Projections

The Project is designated as Mixed-Use Overlay zoning and is anticipated to be fully operational in 2025. The Project's growth would also be consistent with the growth projections contained in the 2016-2040 RTP/SCS. The Project consists of 379 multifamily residential units and a 217 unit senior living facility and would add approximately 1,166 people to the City's jurisdiction, that would comprise approximately 1.9 percent and 2.6 percent of SCAG's projected year 2040 estimated increase of 60,200 in population and 23,000 households, respectively.<sup>120,121</sup> In addition, the Project would add approximately 207 employees that would comprise approximately 0.9 percent of SCAG's estimated 2040 employment increase of 22,400.<sup>122,123</sup> As such, the Project would have a very small effect on the overall population and household projections for the City and not cause an exceedance of SCAG employment growth projections. Therefore, the increases in employment would be consistent with SCAG's 2016-2040 RTP/SCS goals and would be consistent with the growth projections contained in SCAG's 2016-2040 RTP/SCS, which form the basis of the growth projections in the 2016 AQMP.

**As discussed above under Methodology, projects, uses, and activities that are consistent with the applicable growth projections and control strategies used in the development of the AQMP would not jeopardize attainment of the air quality reductions identified in the AQMP.<sup>124</sup> Impacts would be less than significant with mitigation.**

**Mitigation: Mitigation: Mitigation Measure AIR-1 (MM-AIR-1): Construction Equipment Features.** The Applicant shall implement the following construction equipment features for equipment operating at the Project Site. These features shall be included in applicable bid documents, and successful contractor(s) must demonstrate the ability to supply such equipment. Construction features shall include the following:

- The Project shall utilize off-road diesel-powered construction equipment that meets or exceeds the California Air Resources Board (CARB) and U.S. Environmental Protection Agency (USEPA) Tier 4 Final off-road emissions standards or equivalent for equipment rated at 50 horsepower (hp) or greater during Project construction where available within the Los Angeles region. Such equipment shall be outfitted with Best Available Control Technology (BACT), which means a CARB-certified Level 3 DPM or equivalent.

<sup>120</sup> Stantec, 2022. Wiley Canyon Mixed-Use Traffic Analysis, July 11.

<sup>121</sup> SCAG, Connect SoCal, Demographics and Growth Forecast Technical Report, page 34.

<sup>122</sup> Stantec, 2022. Wiley Canyon Mixed-Use Traffic Analysis, July 11.

<sup>123</sup> SCAG, Connect SoCal, Demographics and Growth Forecast Technical Report, page 34.

<sup>124</sup> SCAQMD, CEQA Air Quality Handbook, page 12-1.

**Significance after Mitigation:** Less than Significant with mitigation.

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**Threshold 2** Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard.

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## **Impact 2**

**Implementation of the Project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard. (*Less than Significant with Mitigation Incorporated*)**

The Project would contribute to local and regional air pollutant emissions during construction (short-term or temporary) and occupancy (long-term). Based on the following analysis, construction and operation of the Project would result in less than significant impacts with mitigation relative to the maximum daily emissions as compared to the SCAQMD regional significance thresholds for construction criteria air pollutant emissions in which the region is non-attainment under the CAAQS or NAAQS (i.e., ozone precursors of VOCs and NO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>). As shown below, construction and operational emissions would not exceed the SCAQMD regional significance thresholds for attainment, maintenance, or unclassifiable criteria air pollutants (i.e., CO and SO<sub>2</sub>).

### **Construction**

Construction of the Project has the potential to generate temporary regional criteria pollutant emissions through the use of heavy-duty construction equipment, such as excavators and cranes, through vehicle trips generated by workers and haul trucks traveling to and from the Project Site, and through building activities such as the application of paint and other surface coatings. In addition, fugitive dust emissions would result from demolition and various soil-handling activities. Mobile source emissions, primarily NO<sub>x</sub> and DPM, would result from the use of construction equipment such as dozers and loaders. Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of construction activity, and prevailing weather conditions.

The maximum daily construction emissions for the Project were estimated for each construction year. The maximum daily emissions are predicted values for a representative worst-case day, and do not represent the actual emissions that would occur for every day of construction, which would likely be lower on many days. As stated above, in order to provide a conservative emissions analysis, for modeling purposes, construction emissions were modeled beginning in 2023. Detailed emissions calculations are provided in Appendix A of this technical report.

The results of the criteria pollutant calculations are presented in **Table 5, *Estimated Maximum Regional Construction Emissions*** and include dust control measures required to be implemented by SCAQMD Rule 403 (Control of Fugitive Dust) and from architectural coating emission factors based on SCAQMD Rule 1113 (Architectural Coatings). As shown in Table 5, construction-related daily emissions would exceed the SCAQMD thresholds of significance for NO<sub>x</sub> emissions.

Therefore, the Project's temporary impact related to regional NO<sub>x</sub> construction emissions would be potentially significant.

**TABLE 5**  
**ESTIMATED MAXIMUM REGIONAL CONSTRUCTION EMISSIONS (POUNDS PER DAY) <sup>a</sup>**

Phase and Year	VOC	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM10 <sup>b</sup>	PM2.5 <sup>b</sup>
Demolition - 2023	3	28	35	<1	2	1
Site Preparation - 2023	3	24	24	<1	2	1
Grading – 2023 <sup>c</sup>	8	91	69	<1	7	5
Drainage/Utilities/Sub-grade - 2023	4	34	41	<1	2	2
Drainage/Utilities/Sub-grade - 2024	4	32	42	<1	2	1
Foundations/Concrete Pour - 2024	3	27	32	<1	4	3
Building Construction - 2024	3	29	38	<1	2	1
Building Construction - 2025	3	27	37	<1	1	1
Architectural Coating - 2025	38	11	16	<1	1	1
Paving - 2025	2	22	28	<1	1	1
<b>Overlapping Phases</b>						
Grading - 2023 and Drainage/Utilities/Sub-Grade - 2023	12	126	110	<1	9	6
Building Construction - 2025 and Architectural Coating and Paving - 2025	43	61	81	<1	3	2
<b>Maximum Daily Emissions</b>	43	126	110	<1	9	6
<b>SCAQMD Numeric Indicators</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Exceeds Thresholds?	No	<b>Yes</b>	No	No	No	No

NOTES:

<sup>a</sup> Totals may not add up exactly due to rounding in the modeling calculations. Detailed emissions calculations are provided in Exhibit B of this technical report.

<sup>b</sup> Emissions include fugitive dust control measures consistent with SCAQMD Rule 403.

<sup>c</sup> Emissions were calculated to account for the additional haul trucks associated with the additional 23,000 cy of imported soil.

SOURCE: ESA, 2023.

## Operational

The project is expected to produce minimal amounts of mobile, stationary, and area source operational regional criteria pollutant emissions. Operational emission estimates include compliance with SCAQMD Rule 1113 (Architectural Coatings), which limits the VOC content of architectural coatings. Detailed emissions calculations are provided in Appendix B of this technical report.

Daily trip generation rates for the Project were provided in the Stantec traffic analysis.<sup>125</sup> The VMTs were calculated based on the provided 21.86 VMT per capita and 17.81 VMT per

<sup>125</sup> Stantec, 2022. Wiley Canyon Mixed-Use Traffic Analysis, July 11.



employee. The traffic report estimated an increase of population of 1,166 population and 207 employees to give a total of 24,147 VMT generated for the project.

Natural gas usage factors are based on recreational and retail data from the California Energy Commission, and landscape equipment emissions are based on off-road emission factors from CARB. Emissions from the use of consumer products and the reapplication of architectural coatings are based on data provided in CalEEMod.

The results of the regional criteria pollutant emission calculations for VOC, NO<sub>x</sub>, CO, SO<sub>2</sub>, PM10, and PM2.5 are presented in **Table 6, Estimated Maximum Regional Operational Emissions**. **The Project's full buildout maximum regional emissions from operational activities in year 2025 would be below the regional numeric indicators. Therefore, the Project's impact related to regional operational emissions would be less than significant.**

**TABLE 6**  
**ESTIMATED MAXIMUM REGIONAL OPERATIONAL EMISSIONS (POUNDS PER DAY) <sup>a</sup>**

Source	VOC	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM10	PM2.5
<b>Proposed Project</b>						
Area (Coating, Consumer Products, Landscaping)	16	1	49	<1	<1	<1
Energy	<1	2	1	<1	<1	<1
Mobile	9	13	85	<1	6	1
<b>Total Project</b>	<b>25</b>	<b>15</b>	<b>135</b>	<b>&lt;1</b>	<b>6</b>	<b>2</b>
<b>SCAQMD Numeric Indicators</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Exceeds Thresholds?	No	No	No	No	No	No

NOTES:

<sup>a</sup> Totals may not add up exactly due to rounding in the modeling calculations. Detailed emissions calculations are provided in Exhibit B of this technical report.

SOURCE: ESA, 2023.

### Mitigation:

**Mitigation Measure AIR-1 (MM-AIR-1): Construction Equipment Features.** The Applicant shall implement the following construction equipment features for equipment operating at the Project Site. These features shall be included in applicable bid documents, and successful contractor(s) must demonstrate the ability to supply such equipment. Construction features shall include the following:

- The Project shall utilize off-road diesel-powered construction equipment that meets or exceeds the California Air Resources Board (CARB) and U.S. Environmental Protection Agency (USEPA) Tier 4 Final off-road emissions standards or equivalent for equipment rated at 50 horsepower (hp) or greater during Project construction where available within the Los Angeles region. Such

equipment shall be outfitted with Best Available Control Technology (BACT), which means a CARB-certified Level 3 DPM or equivalent.

### Mitigated Construction Emissions

Construction of the Project would result in emissions that exceed the VOC and NO<sub>x</sub> regional threshold, and, as such, impacts would be potentially significant prior to mitigation. With implementation of AIR-1, the regional VOC and NO<sub>x</sub> emissions would be reduced to a level below the SCAQMD regional thresholds, as shown in **Table 7, *Estimated Maximum Mitigated Regional Construction Emissions***. By implementing mitigation that requires Tier 4 Final off-road emissions standards or equivalent for equipment rated at 50 horsepower. With implementation of Mitigation Measure AIR-1, regional NO<sub>x</sub> emissions from construction would be reduced to below the regional threshold and impacts related to regional NO<sub>x</sub> construction emissions would be less than significant.

**TABLE 7**  
**ESTIMATED MAXIMUM MITIGATED REGIONAL CONSTRUCTION EMISSIONS (POUNDS PER DAY) <sup>a</sup>**

Phase and Year	VOC	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM10 <sup>b</sup>	PM2.5 <sup>b</sup>
Demolition - 2023	1	8	42	<1	1	<1
Site Preparation - 2023	1	5	29	<1	1	<1
Grading – 2023 <sup>c</sup>	2	19	79	<1	4	2
Drainage/Utilities/Sub-grade - 2023	1	7	52	<1	<1	<1
Drainage/Utilities/Sub-grade - 2024	1	7	53	<1	<1	<1
Foundations/Concrete Pour - 2024	1	5	35	<1	3	2
Building Construction - 2024	2	12	39	<1	1	<1
Building Construction - 2025	2	11	39	<1	1	<1
Architectural Coating - 2025	37	1	17	<1	<1	<1
Paving - 2025	1	8	32	<1	<1	<1
<b>Overlapping Phases</b>						
Grading - 2023 and Drainage/Utilities/Sub-Grade - 2023	3	26	131	<1	4	2
Building Construction - 2025 and Architectural Coating and Paving - 2025	39	21	88	<1	1	1
<b>Maximum Daily Emissions</b>	39	26	131	<1	4	2
<b>SCAQMD Numeric Indicators</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Exceeds Thresholds?	No	No	No	No	No	No

NOTES:

<sup>a</sup> Totals may not add up exactly due to rounding in the modeling calculations. Detailed emissions calculations are provided in Exhibit B of this technical report.

<sup>b</sup> Emissions include fugitive dust control measures consistent with SCAQMD Rule 403.

<sup>c</sup> Emissions were calculated to account for the additional haul trucks associated with the additional 23,000 cy of imported soil.

SOURCE: ESA, 2023.

**Significance after Mitigation:** Less than Significant with Mitigation.

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**Threshold 3** Expose sensitive receptors to substantial pollutant concentrations.

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### ***Impact 3***

**Implementation of the Project would not expose sensitive receptors to substantial pollutant concentrations. (*Less than Significant with Mitigation Incorporated*)**

#### **Localized Construction Emissions**

As explained above, the localized construction air quality analysis was conducted using the methodology prescribed in the SCAQMD *Final Localized Significance Threshold Methodology* (June 2003, revised July 2008).<sup>126</sup> The screening criteria provided in the *Final Localized Significance Threshold Methodology* were used to determine localized construction emissions thresholds for the Project. The maximum daily localized emissions for each of the construction phases and the localized significance thresholds are presented in **Table 8, *Estimated Maximum Localized Construction Emissions***. The same phasing, equipment assumptions, and compliance with SCAQMD Rule 403 and Rule 1113, were used as for the regional emissions calculations discussed above. As shown in Table 8, construction-related localized emissions would not exceed the SCAQMD localized significance thresholds for NO<sub>x</sub>, CO, PM10 and PM2.5. **Therefore, the Project's temporary impact related to localized construction emissions would be less than significant.**

#### **Localized Operational Emissions**

The localized operational air quality analysis was conducted using the methodology prescribed in the SCAQMD Localized Significance Threshold Methodology (June 2003, revised July 2008). The screening criteria provided in the Localized Significance Threshold Methodology were used to determine the localized operational emissions numerical indicators of significance for the Project. The same assumptions, including compliance with the Title 24 (2019) building energy efficiency standards and CALGreen Code were used in the analysis. The maximum daily localized emissions and the localized significance thresholds are presented in **Table 9, *Estimated Maximum Localized Operational Emissions***. As shown in Table 9, operational emissions of full Project Buildout would not exceed the SCAQMD localized significance thresholds for NO<sub>x</sub>, CO, PM10 and PM2.5. **Therefore, the Project's temporary impact related to localized operational emissions would be less than significant.**

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<sup>126</sup> SCAQMD, Final Localized Significance Threshold Methodology.

**TABLE 8**  
**ESTIMATED MAXIMUM LOCALIZED CONSTRUCTION EMISSIONS (POUNDS PER DAY) <sup>a</sup>**

<b>Phase</b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>PM10 <sup>b</sup></b>	<b>PM2.5 <sup>b</sup></b>
Demolition - 2023	27	34	2	1
Site Preparation - 2023	24	23	1	1
Grading - 2023	80	59	6	4
Drainage/Utilities/Sub-grade - 2023	33	39	2	1
Drainage/Utilities/Sub-grade - 2024	31	39	1	1
Foundations/Concrete Pour - 2024	26	28	4	3
Building Construction - 2024	25	31	1	1
Building Construction - 2025	23	31	1	1
Architectural Coating - 2025	11	15	1	1
Paving - 2025	18	24	1	1
<b>Overlapping Phases</b>				
Grading - 2023 and Drainage/Utilities/Sub-Grade - 2023	113	99	8	5.8
Building Construction - 2025 and Architectural Coating and Paving - 2025	52	69	2	2
<b>Maximum Localized (On-Site) Emissions</b>	113	99	8	5.8
<b>SCAQMD Screening Numeric Indicator <sup>c</sup></b>	<b>246</b>	<b>1,644</b>	<b>12</b>	<b>6</b>
Exceed Screening Numeric Indicator?	No	No	No	No

## NOTES:

<sup>a</sup> Totals may not add up exactly due to rounding in the modeling calculations. Detailed emissions calculations are provided in Exhibit B of this technical report.

<sup>b</sup> Emissions include fugitive dust control measures consistent with SCAQMD Rule 403.

<sup>c</sup> The SCAQMD LSTs are based on Source Receptor Area 13 (Santa Clarita Valley) for a 5-acre site with sensitive receptors conservatively assumed to be located adjacent to the construction area.

SOURCE: ESA, 2023.

**TABLE 9**  
**ESTIMATED MAXIMUM LOCALIZED OPERATIONAL EMISSIONS (POUNDS PER DAY) <sup>a</sup>**

<b>Source</b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>PM10</b>	<b>PM2.5</b>
Area (Consumer Products, Landscaping)	1	49	<1	<1
Energy	2	1	<1	<1
<b>Total Localized (On-Site) Emissions</b>	3	50	<1	<1
<b>SCAQMD Screening Numeric Indicator <sup>b</sup></b>	<b>246</b>	<b>1,644</b>	<b>3</b>	<b>2</b>
Exceeds Screening Numeric Indicator?	No	No	No	No

## NOTES:

<sup>a</sup> Totals may not add up exactly due to rounding in the modeling calculations. Detailed emissions calculations are provided in Exhibit B of this technical report.

<sup>b</sup> The SCAQMD LSTs are based on Source Receptor Area 13 (Santa Clarita Valley) for a 5-acre site with sensitive receptors conservatively assumed to be located adjacent to the Project Site.

SOURCE: ESA, 2023.

## Carbon Monoxide Hotspots

The potential for the Project to cause or contribute to CO hotspots was evaluated by comparing Project intersections (both intersection geometry and traffic volumes) with prior studies conducted by the SCAQMD in support of their AQMPs and considering existing background CO concentrations. As discussed below, this comparison demonstrates that the Project would not cause or contribute considerably to the formation of CO hotspots, that CO concentrations at Project-impacted intersections would remain well below the threshold one-hour and eight-hour CAAQS of 20 or 9.0 ppm, respectively within one-quarter mile of a sensitive receptor, and that no further CO analysis is warranted or required.

As shown previously in Table 3, CO levels in the Project Site area are substantially below the Federal and the State standards. Maximum CO levels in recent years were 1.2 ppm (one-hour average) and 0.8 ppm (eight-hour average) as compared to the criteria of 20 ppm (CAAQS one-hour average) or 35 ppm (NAAQS one-hour average) and 9.0 ppm (eight-hour average). No exceedances of the CO standards have been recorded at monitoring stations in the Air Basin for some time,<sup>127</sup> and the Air Basin is currently designated as a CO attainment area for both the CAAQS and the NAAQS.

The SCAQMD conducted CO modeling for the 2003 AQMP for the four worst-case intersections in the Air Basin. These include: (a) Wilshire Boulevard and Veteran Avenue; (b) Sunset Boulevard and Highland Avenue; (c) La Cienega Boulevard and Century Boulevard; and (d) Long Beach Boulevard and Imperial Highway. In the 2003 AQMP CO attainment demonstration, the SCAQMD notes that the intersection of Wilshire Boulevard and Veteran Avenue is the most congested intersection in Los Angeles County, with an average daily traffic volume of about 100,000 vehicles per day.<sup>128</sup> Relevant information from the 2003 AQMP CO attainment demonstration relied upon in this assessment is provided in Exhibit C of this technical report. This intersection is located near the on- and off-ramps to Interstate 405 in West Los Angeles. The evidence provided in Table 4-10 of Appendix V of the 2003 AQMP shows that the peak modeled CO concentration due to vehicle emissions (i.e., excluding background concentrations) at these four intersections was 4.6 ppm (one-hour average) and 3.2 ppm (eight-hour average) at Wilshire Boulevard and Veteran Avenue.<sup>129</sup> Therefore, projects that result in traffic at any intersection of less than 100,000 vehicles per day would be considered to be less than significant.

Based on the Project traffic analysis,<sup>130</sup> the Project would have a maximum traffic volume of approximately 4,196 average daily trips (ADT) under the Project buildout scenario. As the Project does not result in 100,000 vehicles per day, this comparison demonstrates that the Project would not contribute to the formation of CO hotspots and that no further CO analysis is required. **The Project would not contribute to the formation of CO hotspots and no further CO analysis is required. Therefore, the Project would result in less than significant impacts with respect to CO hotspots.**

<sup>127</sup> SCAQMD, Final 2012 AQMP, page 2-22.

<sup>128</sup> SCAQMD, 2003 AQMP, Appendix V: Modeling and Attainment Demonstrations, page V-4-24.

<sup>129</sup> The eight-hour average is based on a 0.7 persistence factor, as recommended by the SCAQMD.

<sup>130</sup> Stantec, 2022. Wiley Canyon Mixed-Use Traffic Analysis, July 11.

## Toxic Air Contaminants

### Construction

Temporary TAC emissions associated with DPM emissions from heavy construction equipment would occur during construction activities. According to the OEHHA and the SCAQMD's Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (August 2003), health effects from TACs are described in terms of individual cancer risk based on a lifetime (i.e., 70-year) resident exposure duration. Given the temporary and short-term construction schedule (24 months), the Project would not result in a long-term (i.e., lifetime or 70-year) exposure as a result of construction activities. The Project's health risk calculations were performed using a spreadsheet tool consistent with the OEHHA guidance, which incorporates the algorithms, equations, and variables described above as well as in the OEHHA guidance, and incorporates the results of the AERMOD dispersion model. Results of the HRA are shown in **Table 10**, *Maximum Health Risk Impacts for Off-Site Sensitive Receptors*.

**TABLE 10**  
**MAXIMUM UNMITIGATED HEALTH RISK IMPACTS FOR OFF-SITE SENSITIVE RECEPTORS<sup>a, b</sup>**

Sensitive Receptor	Maximum Cancer Risk (# in one million)	Hazard Index
Residential Land Use	55.1	0.14
Maximum Individual Cancer Risk Threshold	10	1.0
<b>Exceeds Threshold?</b>	<b>Yes</b>	<b>No</b>

a The location of the maximum unmitigated cancer risk is at the sensitive receptors to the immediate north of the project site.

b The cancer risk was calculated to account for the additional haul trucks associated with the additional 23,000 cy of imported soil.

SOURCE: ESA, 2023.

As shown in **Table 10**, the residential cancer risk exceed the SCAQMD significance threshold of 10 per million; therefore, this impact is potentially significant, and mitigation measures would be required. Hazard index values for all receptor types were below the SCAQMD significance threshold of 1.0, therefore, chronic impacts would be less than significant. As discussed previously, the residential lifetime exposure under OEHHA guidelines takes into account early life (infant and children) exposure. The calculated cancer risk assumes sensitive receptors would not have any mitigation, such as mechanical filtration, and exposure would occur with windows open.

### Operational

The SCAQMD recommends that operational health risk assessments be conducted for substantial sources of operational DPM (e.g., truck stops and warehouse distribution facilities that generate more than 100 trucks per day or more than 40 trucks with operating transport refrigeration units) and has provided guidance for analyzing mobile source diesel emissions.<sup>131</sup> Project operations

<sup>131</sup> SCAQMD, Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis, August 2003, <http://www.aqmd.gov/docs/default-source/ceqa/handbook/mobile-source-toxics-analysis.doc?sfvrsn=2>. Accessed January 2022.

would generate only minor amounts of diesel emissions from mobile sources, such as delivery trucks and occasional maintenance activities that would not exceed 100 trucks per day or more than 40 trucks with operating transport refrigeration units. Furthermore, Project trucks would be required to comply with the applicable provisions of the CARB 13 CCR, Section 2025 (Truck and Bus regulation) to minimize and reduce PM and NO<sub>x</sub> emissions from existing diesel trucks. Therefore, Project operations would not be considered a substantial source of diesel particulates.

In addition, Project operations would only result in minimal emissions of toxic air contaminants from maintenance or other ongoing activities, such as from the use of architectural coatings and other products. There are no anticipated stationary sources of TACs. With respect to the use of consumer products and architectural coatings, the retail and residential uses associated with the Project would be expected to generate minimal emissions from these sources. The Project's land uses would not include installation of industrial-sized paint booths or require extensive use of commercial or household cleaning products. As a result, toxic or carcinogenic air pollutants are not expected to occur in any substantial amounts in conjunction with operation of the proposed land uses within the Project Site. Based on the uses expected on the Project Site, potential long-term operational impacts associated with the release of TACs would be minimal, regulated, and controlled, and would not be expected to exceed the SCAQMD numerical indicator of significance. Therefore, operational impacts would be less than significant. **Thus, operation of the Project would not expose sensitive receptors to substantial toxic air contaminant concentrations and impacts would be less than significant.**

#### Mitigation:

#### Mitigation Measure AIR-1 (MM-AIR-1): Construction Equipment Features

#### Mitigated Project Toxic Air Contaminant Emissions

As shown in **Table 11**, *Maximum Health Risk Impacts For Off-Site Sensitive Receptors*, with implementation of AIR-1, the maximum cancer risk and hazard index for residences would be below the SCAQMD significance thresholds. **Therefore, impacts related to health risks would be less than significant with mitigation.**

**Significance after Mitigation:** Less than Significant.

**TABLE 11**  
**MAXIMUM MITIGATED HEALTH RISK IMPACTS FOR OFF-SITE SENSITIVE RECEPTORS<sup>a, b</sup>**

Sensitive Receptor	Maximum Cancer Risk (# in one million)	Hazard Index
Residential Land Use	7.1	0.02
Maximum Individual Cancer Risk Threshold	10	1.0
<b>Exceeds Threshold?</b>	<b>No</b>	<b>No</b>

The location of the maximum mitigated cancer risk is at the sensitive receptors to the immediate north of the project site.

<sup>b</sup> The cancer risk was calculated to account for the additional haul trucks associated with the additional 23,000 cy of imported soil.

SOURCE: ESA, 2023.

## Freeway Health Risk Assessment

Freeways and high-traffic roads are significant sources of TAC emissions. CARB recommends siting sensitive land uses at least 500 feet away from such sources. As the proposed Project would develop residential areas near Interstate 5 (I-5), a HRA was conducted to disclose the potential risk to future occupants of the proposed project. The closest lane of traffic on the I-5 Freeway would be approximately 66 feet to 115 feet from the Project Site property line where development would occur. The townhomes along the Project Site's western boundary would have an additional buffer distance ranging from approximately 5 feet to 24 feet from the property line. Details of the modeling and assumptions are included in Appendix D.

Gasoline and diesel-fueled cars and trucks are a source of MSATs that pose potential carcinogenic and non-carcinogenic health risks to exposed populations. The freeway HRA focused on the emissions of the following carcinogenic priority MSATs: DPM, acetaldehyde, acrolein, benzene, 1,3-butadiene, formaldehyde, and naphthalene.

The analysis incorporated traffic volumes and speeds for the I-5 freeway and ramps in the project vicinity obtained from the California Department of Transportation monitoring data. Following OEHHA Guidance (2015), the HRA assesses a 30-year residential exposure with age-specific sensitivities to account for early life exposure. The analysis spans 30 years from Project buildout, defined by the period immediately following the earliest anticipated project completion. This represents the worst-case long-term exposure from the freeway sources as future vehicles implement cleaner technologies (natural gas, hybrid and electric vehicles) moving away from a dependence on diesel and gasoline fossil fuels.

The HRA analysis conservatively modeled all trucks as diesel heavy-heavy duty trucks (HHDT) and the balance of the traffic as gasoline-fueled light-duty passenger vehicles (gasoline cars). Air toxic emissions from the diesel HHDT were characterized by the exhaust emissions of diesel particulate matter (using PM10 exhaust as a surrogate for whole Diesel Exhaust representing both plus the toxic particulate and gaseous components of the exhaust). Gasoline passenger (car) vehicle emissions were characterized by total organic gaseous exhaust (TOG) also speciated for the five carcinogenic MSATs: acetaldehyde, benzene, 1,3-butadiene, formaldehyde, and naphthalene.

**Table 12** shows the maximum predicted cancer risk from MSAT emissions from adjacent I-5 traffic for residential receptors in the project development area.

**TABLE 12**  
**MAXIMUM CANCER RISK IMPACTS FOR ON-SITE RESIDENTIAL RECEPTORS**

<b>Freeway Sources</b>	<b>Maximum Cancer Risk (# in one million)</b>	<b>Maximum Cancer Risk (# in a Million) with MERV-13</b>
Trucks	18.2	7.3
Cars	0.1	0.1
<b>Total Estimated Cancer Risk</b>	<b>18.3</b>	<b>7.4</b>
Max Individual Cancer Risk Threshold	10	10
<b>Exceeds Threshold?</b>	<b>Yes</b>	<b>No</b>

SOURCE: ESA 2022



The maximum calculated cancer risk of 18.3 in million is estimated for outdoor exposure and assumes that sensitive receptors (residential uses) would have continuously open windows. The California Title 24-2019 standards requires the installation of filters that meet the Minimum Efficiency Reporting Value (MERV) of 13, which typically results in a reduction of up to 85 percent in diesel particulate matter.<sup>132</sup> There is no abatement or reduction in risk from the organic HAPs from the gaseous exhaust from trucks and passenger vehicles, however diesel particulate matter accounts is the overwhelming contributor to cancer risk (90 percent). Indoor air filters are only capable of reducing particulate matter when windows and doors are closed, and the HVAC system is functioning. In addition, the filter medium should be regularly replaced as per system specifications. With a conservatively applied 60 percent reduction to health risk impacts, the maximally exposed future resident was determined to be 7.4 in one million after reductions from MERV 13 filters. As the maximum impact would be less than the significance threshold of ten (10) in one million, impacts would be less than significant, and mitigation is not required.

Non-carcinogenic health impacts were determined for the exhaust emissions from trucks and cars from the nearby I-5 traffic also following the OEHHA HRA guidance (2015). TACs for gasoline included the five carcinogenic MSATs (acetaldehyde, benzene, 1,3-butadiene formaldehyde, naphthalene) plus acrolein. Chronic health effects from diesel exhaust were based on diesel PM10 (DPM) as a surrogate and based on chronic respiratory effects. Acute health effects for diesel were analyzed for the impacts of individual toxic components of the particulate and gaseous exhaust phases as outlined in OEHHA guidelines and utilizing ARB speciation profiles. Particulate matter components evaluated for DPM included chlorine, sulfates and heavy metals.

Acute and chronic non-cancer exposures to gasoline and diesel exhaust air toxics were based on averaging periods of one hour to one year and apply to potential exposures for site workers and visitors, in addition to the project residents. Accordingly, non-cancer health effects were determined for all locations within the project development area including setback areas directly adjacent to the freeway (within 30 meters of the freeway southbound lanes). The analysis showed that potential acute and chronic health impacts are well below established significance thresholds at all locations. The inputs and results for non-carcinogenic health impacts are included along with the cancer HRA in Exhibit D.

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**Threshold 4** Result in other emissions (such as those leading to odors) affecting a substantial number of people.

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<sup>132</sup> South Coast Air Quality Management District, Draft Pilot Study of High Performance Air Filtration for Classrooms Applications, October 2008.

## Impact 4

**Implementation of the Project would not result in other emissions (such as those leading to odors adversely affecting a substantial number of people). (Less than Significant)**

### Construction

Potential activities that may emit odors during construction include the use of architectural coatings and solvents, as well as the combustion of diesel fuel in on-and off-road equipment. SCAQMD Rule 1113 would limit the amount of VOCs in architectural coatings and solvents. In addition, the Project would comply with the applicable provisions of the CARB Air Toxics Control Measure regarding idling limitations for diesel trucks. Diesel particulate matter poses a carcinogenic health risk that is generally measured using an exposure period of 30 years for sensitive residential receptors, according to the OEHHA *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*, which was updated in 2015 with new exposure parameters including age sensitivity factors. Through mandatory compliance with SCAQMD Rules, no construction activities or materials are expected to create objectionable odors affecting a substantial number of people. Furthermore, as shown in Table 7, with implementation of mitigation measures, construction emissions would not exceed the SCAQMD regional significance thresholds for attainment, maintenance, or unclassifiable criteria air pollutants (i.e., CO and SO<sub>2</sub>). **Therefore, construction activities would result in less than significant impacts with respect to other emissions, including those leading to odors.**

### Operational

According to the SCAQMD *CEQA Air Quality Handbook*, land uses associated with odor complaints typically include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. The Project does not include any uses identified by the SCAQMD as being associated with substantial odors. As a result, the Project is not expected to discharge contaminants into the air in quantities that would cause a nuisance, injury, or annoyance to the public or property pursuant to SCAQMD Rule 402. Furthermore, as shown in Table 6, operational emissions would not exceed the SCAQMD regional significance thresholds for attainment, maintenance, or unclassifiable criteria air pollutants (i.e., CO and SO<sub>2</sub>). **Therefore, operation of the Project would result in less than significant impacts with respect to other emissions, including those leading to odors.**

**Mitigation:** None required.

**Significance after Mitigation:** Less Than Significant.

## 3.5 Cumulative Impacts

Related projects located in the Project Site area that have not yet been built or that are currently under construction have the potential to cumulatively impact air quality in the Air Basin. Since both the timing and the sequencing of the construction of the related projects are unknown, any quantitative analysis to ascertain daily construction emissions that assumes multiple, concurrent construction projects would be speculative. For this reason, the SCAQMD's recommended methodology for assessing a project's cumulative impacts differs from the cumulative impacts methodology employed in the analysis of other resource areas. The SCAQMD recommends using

two different methodologies: (1) that project-specific air quality impacts be used to determine the project's potential cumulative impacts to regional air quality;<sup>133</sup> or (2) that a project's consistency with the current AQMP be used to determine its potential cumulative impacts.

### **Project-Specific Impacts**

Regional construction, regional operational, localized construction and localized operational emissions would be below the SCAQMD regional and localized significance thresholds with mitigation as identified in Tables 5 through Table 12, respectively. **Therefore, cumulative impacts related to construction and operational emissions would be less than significant with mitigation.**

### **Consistency with the Air Quality Management Plan**

Additionally, the SCAQMD recommends assessing a project's cumulative impacts based on whether the project is consistent with the current AQMP. Section 15064(h)(3) of the State CEQA Guidelines provides guidance in determining the significance of cumulative impacts. Specifically, Section 15064(h)(3) states in part that:

*“A lead agency may determine that a project's incremental contribution to a cumulative effect is not cumulatively considerable if the project will comply with the requirements in a previously approved plan or mitigation program which provides specific requirements that will avoid or substantially lessen the cumulative problem (e.g., water quality control plan, air quality plan, integrated waste management plan) within the geographic area in which the project is located. Such plans or programs must be specified in law or adopted by the public agency with jurisdiction over the affected resources through a public review process to implement, interpret, or make specific the law enforced or administered by the public agency...”*

For purposes of the cumulative air quality analysis with respect to State CEQA Guidelines Section 15064(h)(3), the Project's cumulative air quality impacts are determined not to be significant based on its consistency with the SCAQMD's adopted 2016 AQMP, as discussed above.

As discussed above, the Project construction would incorporate emission reduction strategies, as applicable, consistent with the 2016 AQMP. Construction of the Project would comply with SCAQMD Rule 403 requirements and the ATCM to limit heavy duty diesel motor vehicle idling to no more than 5 minutes at any given time. As discussed above, during its construction phase, the Project would ensure compliance with CARB's requirements to minimize short-term emissions from on-road and off-road diesel equipment, SCAQMD's Rule 403 and Rule 1113, fleet rules to reduce on-road truck emissions (i.e., 13 CCR, Section 2025 (CARB Truck and Bus regulation)). Short-term and temporary construction jobs would be within the growth projections contained in the 2016-2040 RTP/SCS upon which the 2016 AQMP was based. As such,

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<sup>133</sup> SCAQMD, Potential Control Strategies to Address Cumulative Impacts from Air Pollution White Paper, Appendix D, 1993, page D-3, <http://www.aqmd.gov/docs/default-source/Agendas/Environmental-Justice/cumulative-impacts-working-group/cumulative-impacts-white-paper-appendix.pdf?sfvrsn=4>. Accessed February 2019.

construction would be consistent with the 2016 AQMP, and impacts with respect to AQMP consistency would be less than significant.

The Project location would support land use and transportation control strategies related to reducing vehicle trips for patrons and employees by co-locating residential and commercial uses and by increasing commercial density near public transit. In addition, the Project would provide an additional Class 1 trail from the Project Site which will connect cyclists at the Project Site to other parts of the City with existing bicycle infrastructure.<sup>134</sup> Bicycle parking and alternative fueled vehicle spaces would be provided at the Project Site consistent with the 2019 Title 24 Building Energy Efficiency Standards and CALGreen Code. The Project Site has access to four existing local Santa Clarita Transit routes (Line 4, Line 5, Line 6, and Line 14). Additionally, the Newhall Metrolink station is located approximately 2.5 miles northeast and the McBean Regional Transit Center is located approximately 3 miles from the Project Site. Thus, the Project would result in reduced VMT, and reduced associated transportation-related air pollutant emissions, as compared to the statewide and Air Basin averages. This analysis provides evidence of the Project's consistency with the 2016 AQMP's goal of reducing mobile source emissions as a source of NO<sub>x</sub> and PM<sub>2.5</sub>. **As such, the Project would be consistent with and would not conflict with or obstruct implementation of the 2016 AQMP. Therefore, cumulative impacts with respect to AQMP consistency would be less than significant.**

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<sup>134</sup> Stantec, 2022. Wiley Canyon Mixed-Use Traffic Analysis, July 11.

# Exhibit A

## **Assumptions and Calculations**



**Wiley Canyon**  
Construction Assumptions

Project Site Acreage 31.8

**Project Summary**

Land Use	CalEEMod Landuse Type	Unit Amount	Size Metrics	Lot Acreage	Square Feet	% SQ FT	AERMOD Allocation
Commercial	General Office Building	8.91	1000sqft	0.20	8,914	0.5%	Senior
Parking	Enclosed Parking Structure	602	Space	5.42	240,800	14.0%	Apartment
Parking	Enclosed Parking Structure	48	Space	0.43	19,200	1.1%	Senior
Parking	Parking Lot	143	Space	1.29	57,200	3.3%	Apartment
Parking	Parking Lot	176	Space	1.58	70,400	4.1%	Senior
Recreational	City Park	15	Acre	15	653,400	38.1%	Total
Recreational	Recreational Swimming Pool	2.07	1000sqft	0.1	2,069	0.1%	Apartment
Residential	Retirement Community	217	Dwelling Unit	6.36	277,108	16.2%	Senior
Residential	Apartments Mid Rise	379	Dwelling Unit	8.79	382,972	22.3%	Apartment
Recreational	Health Club	2.40	1000sqft	0.1	2,400	0.1%	Apartment
				39.28	1,714,463	1	

Updated based on email from Anitra & Daryl 12/8/2022  
Updated based on email from Anitra & Daryl 12/8/2022

**Notes**

- 1 Information from file 1640\_SITE\_DEV\_PLAN\_FULL\_120122A.pdf
- 2 Total parking is 969 spots; 650 garage spaces and 319 parking lot spaces, split between senior living facility and apartments based on site plan.
- 3 Land use acreage is an estimate of the total site acreage of 5 acres
- 4 Building construction emissions will be apportioned to AERMOD sources based on ratio of square footage

**Project Description**

Location	CEC Forecasting Climate Zone	Start of Construction	Operational Year	Utility Company
Santa Clarita	9	2-Jan-23	12/21/2024	Southern California Edison

**Construction Schedule**

Phase Name	CalEEMod Phase Type	Start Date	End Date	Total Days	# of Workers per day	Total One-way Worker Trips per day	Trip Length	Vendor Trips per day*	Total One-Way Vendor Trips per day	Trip Length	Total Haul Trucks	Total One-way Haul Trips	Trucks per day	Trip Length
Demolition		1/2/2023	12/31/2025	1,094	10	20	14.7	0	0	6.9	8	16	2	20
Site Preparation		1/2/2023	1/19/2023	14	5	10	14.7	0	0	6.9	3	6	1.0	20
Grading/Excavation		1/13/2023	2/1/2023	14	15	30	14.7	0	0	6.9	4770	9540	14	20
Drainage/Utilities/Sub-Grade		2/4/2023	11/1/2023	193	10	20	14.7	0	0	6.9	572	1144	4	20
Foundations/Concrete Pour		6/16/2023	1/2/2024	143	25	50	14.7	0	0	6.9	170	340	2	20
Building Construction		1/2/2024	4/29/2024	85	50	100	14.7	235	470	6.9	3940	7880	10	20
Architectural Coatings		4/30/2024	11/1/2025	394	15	30	14.7	0	0	6.9	0	0	0	20
Paving		7/26/2025	12/31/2025	113	15	30	14.7	0	0	6.9	570	1140	15	20
		8/23/2025	10/15/2025	38	15	30	14.7	0	0	6.9				

\* Taken From CalEEMod

Demolition, Site Preparation, and Grading/Excavation Haul Trucks are taken from the "Preferred Data Needs". All other phase Haul Trucks were taken from the Equipment Table  
12 months for grading and utility installation (i.e., horizontal infrastructure).  
18 months for the construction of the senior facility and initial construction of the apartments, the latter starting in the north (across from the senior facility) until first occupancy - vertical construction.  
An additional six months to complete the apartment construction.

	Revised	Original
Import Material	85,000	62,000 CY
Total Trucks	6,539.0	4770
Trucks per day		24,71503
One-way trips	13078	4769,231

**For AERMOD**

Phase Name	CalEEMod Phase Type	Start Date	End Date	Total Days
Demolition		1/2/2023	1/19/2023	14
Site Preparation		1/13/2023	2/1/2023	14
Grading/Excavation		2/4/2023	11/1/2023	193
Drainage/Utilities/Sub-Grade		6/16/2023	1/2/2024	143
Foundations/Concrete Pour		1/2/2024	4/29/2024	85
Building Construction_Totat		4/30/2024	11/1/2025	394
Building Construction_Senior		4/30/2024	10/29/2025	392
Building Construction_Apartment		5/1/2025	11/1/2025	132
Architectural Coatings		7/26/2025	12/31/2025	113
Paving		8/23/2025	10/15/2025	38

Wiley Canyon

Regional Emissions -- Unmitigated

Air Quality Construction Analysis

Regional Maximums Source	ROG	NOX	CO	SO2	Total PM10	Total PM2.5
	lb/day					
3.2 Demolition - 2023	3.3	27.6	34.8	0.07	2.3	1.3
3.3 Site Preparation - 2023	2.6	24.1	23.8	0.06	1.5	1.0
3.4 Grading - 2023	8	91	69	0	7	5
3.5 Drainage/Utilities/Sub-grade - 2023	3.8	34.4	41.2	0.09	1.6	1.5
3.5 Drainage/Utilities/Sub-grade - 2024	3.7	32.1	42.2	0.10	1.6	1.3
3.6 Foundations/Concrete Pour - 2024	3.0	27.0	32.4	0.06	4.1	2.5
3.7 Building Construction - 2024	3.3	28.5	37.5	0.08	1.6	1.2
3.7 Building Construction - 2025	3.1	26.9	37.1	0.08	1.4	1.0
3.8 Architectural Coating - 2025	38.2	11.4	15.5	0.03	0.6	0.5
3.9 Paving - 2025	2.1	22.4	28.2	0.07	1.2	0.9
<b>Overlapping Phases</b>						
	ROG	NOX	CO	SO2	Total PM10	Total PM2.5
<b>3.4 Grading - 2023 and 3.5 Drainage/Utilities/Sub-Grade - 2023</b>	12	126	110	0	9	6
<b>3.7 Building Construction - 2025 and 3.8 Architectural Coating and 3.9 Paving - 2025</b>	43.4	60.6	80.8	0.17	3.2	2.4
<b>Project Daily Maximum Emissions</b>	<b>43.42</b>	<b>125.70</b>	<b>110.29</b>	<b>0.29</b>	<b>8.53</b>	<b>6.07</b>
SCAQMD Regional Significance Threshold	75	100	550	150	150	55
Exceeds Threshold?	No	Yes	No	No	No	No



Wiley Canyon

Regional Emissions -- Unmitigated

SEP updates

1/29/2024

Air Quality Construction Analysis

Summer Regional Emissions Source	Onsite Emissions								Offsite Emissions									
	ROG	NOX	CO	SO2	Exhaust PM10 lb/day	Total PM10	Exhaust PM2.5	Total PM2.5	ROG	NOX	CO	SO2	Fugitive PM10 lb/day	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
3.2 Demolition - 2023	3.33	26.93	33.53	0.07	1.18	2.19	1.12	1.27	0.02	0.72	1.30	0.01	0.09	0.01	0.09	0.02	0.01	0.02
3.3 Site Preparation - 2023	2.55	23.77	23.12	0.05	1.03	1.45	0.96	1.01	0.01	0.36	0.65	0.00	0.04	0.00	0.05	0.01	0.00	0.01
3.4 Grading - 2023	7.72	80.11	59.32	0.14	3.27	6.17	3.02	4.37	0.07	11.20	9.74	0.06	0.65	0.08	0.72	0.16	0.07	0.23
3.5 Drainage/Utilities/Sub-grade - 2023	3.81	33.03	39.43	0.08	1.51	1.51	1.43	1.43	0.02	1.37	1.80	0.01	0.12	0.01	0.13	0.03	0.01	0.04
3.5 Drainage/Utilities/Sub-grade - 2024	3.64	30.72	39.37	0.08	1.36	1.36	1.29	1.29	0.04	1.41	2.83	0.01	0.21	0.01	0.22	0.04	0.01	0.05
3.6 Foundations/Concrete Pour - 2024	2.90	25.92	28.11	0.05	1.22	3.75	1.15	2.46	0.07	1.05	4.30	0.01	0.32	0.01	0.33	0.06	0.01	0.07
3.7 Building Construction - 2024	3.26	24.91	31.18	0.05	1.11	1.11	1.08	1.08	0.08	3.58	6.29	0.03	0.45	0.03	0.48	0.09	0.03	0.12
3.7 Building Construction - 2025	3.06	23.40	31.05	0.05	0.95	0.95	0.92	0.92	0.08	3.46	6.00	0.03	0.45	0.03	0.48	0.09	0.03	0.12
3.8 Architectural Coating - 2025	38.19	11.30	14.48	0.02	0.49	0.49	0.47	0.47	0.02	0.08	1.02	0.00	0.08	0.00	0.09	0.02	0.00	0.02
3.9 Paving - 2025	2.04	17.67	23.51	0.04	0.81	0.81	0.75	0.75	0.04	4.70	4.72	0.03	0.33	0.03	0.36	0.08	0.03	0.11
Regional Emissions	ROG	NOX	CO	SO2	Exhaust PM10	Total PM10	Exhaust PM2.5	Total PM2.5										
3.2 Demolition - 2023	3.34	27.64	34.83	0.07	1.18	2.29	1.12	1.30										
3.3 Site Preparation - 2023	2.56	24.12	23.77	0.06	1.04	1.49	0.96	1.02										
3.4 Grading - 2023	7.80	91.31	69.06	0.20	3.35	6.89	3.10	4.61										
3.5 Drainage/Utilities/Sub-grade - 2023	3.83	34.39	41.23	0.09	1.52	1.64	1.44	1.47										
3.5 Drainage/Utilities/Sub-grade - 2024	3.68	32.12	42.21	0.10	1.37	1.58	1.30	1.34										
3.6 Foundations/Concrete Pour - 2024	2.97	26.96	32.41	0.06	1.23	4.08	1.16	2.53										
3.7 Building Construction - 2024	3.34	28.49	37.47	0.08	1.14	1.59	1.10	1.20										
3.7 Building Construction - 2025	3.13	26.87	37.05	0.08	0.98	1.43	0.95	1.05										
3.8 Architectural Coating - 2025	38.20	11.37	15.50	0.03	0.50	0.58	0.47	0.48										
3.9 Paving - 2025	2.08	22.37	28.23	0.07	0.84	1.17	0.78	0.86										
Overlapping Phases																		
	ROG	NOX	CO	SO2	Exhaust PM10	Total PM10	Exhaust PM2.5	Total PM2.5										
3.4 Grading - 2023 and 3.5 Drainage/Utilities/Sub-Grade - 2023	11.6	125.7	110.3	0.3	4.9	8.5	4.5	6.1										
3.7 Building Construction - 2025 and 3.8 Architectural Coating and 3.9 Paving - 2025	43.4	60.6	80.8	0.2	2.3	3.2	2.2	2.4										
<b>Project Daily Maximum Emissions</b>	<b>43.42</b>	<b>125.70</b>	<b>110.29</b>	<b>0.29</b>	<b>4.87</b>	<b>8.53</b>	<b>4.54</b>	<b>6.07</b>										

Wiley Canyon  
Regional Emissions -- Unmitigated  
Air Quality Construction Analysis

SEP updates 1/29/2024

Winter Regional Emissions Source	Onsite Emissions								Offsite Emissions									
	ROG	NOX	CO	SO2	Exhaust PM10 lb/day	Total PM10	Exhaust PM2.5	Total PM2.5	ROG	NOX	CO	SO2	Fugitive PM10 lb/day	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
3.2 Demolition - 2023	3.33	26.93	33.53	0.069	1.18	2.19	1.12	1.27	0.02	0.72	1.30	0.01	0.09	0.01	0.09	0.02	0.01	0.02
3.3 Site Preparation - 2023	2.55	23.77	23.12	0.053	1.03	1.45	0.96	1.01	0.01	0.36	0.65	0.00	0.04	0.00	0.05	0.01	0.00	0.01
3.4 Grading - 2023	7.72	80.11	59.32	0.142	3.27	6.17	3.02	4.37	0.07	11.20	9.74	0.06	0.65	0.08	0.72	0.16	0.07	0.23
3.5 Drainage/Utilities/Sub-grade - 2023	3.81	33.03	39.43	0.084	1.51	1.51	1.43	1.43	0.02	1.37	1.80	0.01	0.12	0.01	0.13	0.03	0.01	0.04
3.5 Drainage/Utilities/Sub-grade - 2024	3.64	30.72	39.37	0.084	1.36	1.36	1.29	1.29	0.04	1.41	2.83	0.01	0.21	0.01	0.22	0.04	0.01	0.05
3.6 Foundations/Concrete Pour - 2024	2.90	25.92	28.11	0.051	1.22	3.75	1.15	2.46	0.07	1.05	4.30	0.01	0.32	0.01	0.33	0.06	0.01	0.07
3.7 Building Construction - 2024	3.26	24.91	31.18	0.052	1.11	1.11	1.08	1.08	0.08	3.58	6.29	0.03	0.45	0.03	0.48	0.09	0.03	0.12
3.7 Building Construction - 2025	3.06	23.40	31.05	0.052	0.95	0.95	0.92	0.92	0.08	3.46	6.00	0.03	0.45	0.03	0.48	0.09	0.03	0.12
3.8 Architectural Coating - 2025	38.19	11.30	14.48	0.025	0.49	0.49	0.47	0.47	0.02	0.08	1.02	0.00	0.08	0.00	0.09	0.02	0.00	0.02
3.9 Paving - 2025	2.04	17.67	23.51	0.040	0.81	0.807	0.75	0.75	0.04	4.70	4.72	0.03	0.33	0.03	0.36	0.08	0.03	0.11
Regional Emissions	ROG	NOX	CO	SO2	Exhaust PM10	Total PM10	Exhaust PM2.5	Total PM2.5										
3.2 Demolition - 2023	3.3	27.6	34.8	0.1	1.2	2.3	1.1	1.3										
3.3 Site Preparation - 2023	2.6	24.1	23.8	0.1	1.0	1.5	1.0	1.0										
3.4 Grading - 2023	7.8	91.3	69.1	0.2	3.3	6.9	3.1	4.6										
3.5 Drainage/Utilities/Sub-grade - 2023	3.8	34.4	41.2	0.1	1.5	1.6	1.4	1.5										
3.5 Drainage/Utilities/Sub-grade - 2024	3.7	32.1	42.2	0.1	1.4	1.6	1.3	1.3										
3.6 Foundations/Concrete Pour - 2024	3.0	27.0	32.4	0.1	1.2	4.1	1.2	2.5										
3.7 Building Construction - 2024	3.3	28.5	37.5	0.1	1.1	1.6	1.1	1.2										
3.7 Building Construction - 2025	3.1	26.9	37.1	0.1	1.0	1.4	1.0	1.0										
3.8 Architectural Coating - 2025	38.2	11.4	15.5	0.0	0.5	0.6	0.5	0.5										
3.9 Paving - 2025	2.1	22.4	28.2	0.1	0.8	1.2	0.8	0.9										
Overlapping Phases																		
	ROG	NOX	CO	SO2	Exhaust PM10	Total PM10	Exhaust PM2.5	Total PM2.5										
3.4 Grading - 2023 and 3.5 Drainage/Utilities/Sub-Grade - 2023	11.6	125.7	110.3	0.3	4.9	8.5	4.5	6.1										
3.7 Building Construction - 2025 and 3.8 Architectural Coating and 3.9 Paving - 2025	43.4	60.6	80.8	0.2	2.3	3.2	2.2	2.4										
<b>Project Daily Maximum Emissions</b>	<b>43.42</b>	<b>125.70</b>	<b>110.29</b>	<b>0.29</b>	<b>4.87</b>	<b>8.53</b>	<b>4.54</b>	<b>6.07</b>										

Wiley Canyon

Regional Emissions - Mitigated  
Air Quality Construction Analysis

Regional Maximums Source	ROG	NOX	CO	SO2	Total PM10	Total PM2.5
	lb/day					
3.2 Demolition - 2023	1.2	8.0	42.3	0.07	1.3	0.4
3.3 Site Preparation - 2023	0.7	5.4	29.1	0.06	0.5	0.1
3.4 Grading - 2023	2	19	79	0	4	2
3.5 Drainage/Utilities/Sub-grade - 2023	1.1	7.1	51.5	0.09	0.3	0.2
3.5 Drainage/Utilities/Sub-grade - 2024	1.1	7.2	52.5	0.10	0.4	0.2
3.6 Foundations/Concrete Pour - 2024	0.7	5.1	35.4	0.06	2.9	1.5
3.7 Building Construction - 2024	1.5	11.5	39.2	0.08	0.7	0.4
3.7 Building Construction - 2025	1.5	11.2	38.9	0.08	0.7	0.4
3.8 Architectural Coating - 2025	37.2	1.3	16.9	0.03	0.1	0.1
3.9 Paving - 2025	0.7	8.1	32.1	0.07	0.4	0.2
<b>Overlapping Phases</b>						
	ROG	NOX	CO	SO2	Total PM10	Total PM2.5
<b>3.4 Grading - 2023 and 3.5 Drainage/Utilities/Sub-Grade - 2023</b>	3	26	131	0	4	2
<b>3.7 Building Construction - 2025 and 3.8 Architectural Coating and 3.9 Paving - 2025</b>	39	21	88	0	1	1
<b>Project Daily Maximum Emissions</b>	<b>39</b>	<b>26</b>	<b>131</b>	<b>0</b>	<b>4</b>	<b>2</b>
SCAQMD Regional Significance Threshold	75	100	550	150	150	55
Exceeds Threshold?	No	No	No	No	No	No



Wiley Canyon

Regional Emissions - Mitigated

SEP updates

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Air Quality Construction Analysis

Summer Regional Emissions Source	Onsite Emissions								Offsite Emissions									
	ROG	NOX	CO	SO2	Exhaust PM10 lb/day	Total PM10	Exhaust PM2.5	Total PM2.5	ROG	NOX	CO	SO2	Fugitive PM10 lb/day	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
3.2 Demolition - 2023	1.14	7.29	40.98	0.07	0.17	1.19	0.17	0.33	0.02	0.72	1.30	0.01	0.09	0.01	0.09	0.02	0.01	0.02
3.3 Site Preparation - 2023	0.69	5.09	28.43	0.05	0.08	0.50	0.08	0.13	0.01	0.36	0.65	0.00	0.04	0.00	0.05	0.01	0.00	0.01
3.4 Grading - 2023	1.82	8.12	69.30	0.14	0.26	3.15	0.26	1.60	0.07	11.20	9.74	0.06	0.65	0.08	0.72	0.16	0.07	0.23
3.5 Drainage/Utilities/Sub-grade - 2023	1.08	5.78	49.71	0.08	0.15	0.15	0.15	0.15	0.02	1.37	1.80	0.01	0.12	0.01	0.13	0.03	0.01	0.04
3.5 Drainage/Utilities/Sub-grade - 2024	1.08	5.78	49.71	0.08	0.15	0.15	0.15	0.15	0.04	1.41	2.83	0.01	0.21	0.01	0.22	0.04	0.01	0.05
3.6 Foundations/Concrete Pour - 2024	0.64	4.02	31.13	0.05	0.09	2.62	0.09	1.40	0.07	1.05	4.30	0.01	0.32	0.01	0.33	0.06	0.01	0.07
3.7 Building Construction - 2024	1.47	7.94	32.92	0.05	0.27	0.27	0.27	0.27	0.08	3.58	6.29	0.03	0.45	0.03	0.48	0.09	0.03	0.12
3.7 Building Construction - 2025	1.40	7.79	32.87	0.05	0.24	0.24	0.24	0.24	0.08	3.46	6.00	0.03	0.45	0.03	0.48	0.09	0.03	0.12
3.8 Architectural Coating - 2025	37.22	1.24	15.92	0.02	0.04	0.04	0.04	0.04	0.02	0.08	1.02	0.00	0.08	0.00	0.09	0.02	0.00	0.02
3.9 Paving - 2025	0.71	3.35	27.38	0.04	0.06	0.06	0.06	0.06	0.04	4.70	4.72	0.03	0.33	0.03	0.36	0.08	0.03	0.11
Regional Emissions	ROG	NOX	CO	SO2	Exhaust PM10	Total PM10	Exhaust PM2.5	Total PM2.5										
3.2 Demolition - 2023	1.16	8.00	42.28	0.07	0.18	1.28	0.18	0.35										
3.3 Site Preparation - 2023	0.70	5.44	29.08	0.06	0.09	0.55	0.09	0.14										
3.4 Grading - 2023	1.90	19.32	79.04	0.20	0.33	3.87	0.33	1.84										
3.5 Drainage/Utilities/Sub-grade - 2023	1.10	7.15	51.51	0.09	0.16	0.28	0.16	0.19										
3.5 Drainage/Utilities/Sub-grade - 2024	1.12	7.19	52.54	0.10	0.16	0.37	0.16	0.20										
3.6 Foundations/Concrete Pour - 2024	0.71	5.07	35.43	0.06	0.10	2.94	0.10	1.47										
3.7 Building Construction - 2024	1.55	11.52	39.21	0.08	0.30	0.74	0.29	0.39										
3.7 Building Construction - 2025	1.48	11.25	38.87	0.08	0.27	0.72	0.27	0.36										
3.8 Architectural Coating - 2025	37.23	1.32	16.95	0.03	0.04	0.12	0.04	0.06										
3.9 Paving - 2025	0.75	8.05	32.10	0.07	0.10	0.43	0.10	0.17										
Overlapping Phases																		
	ROG	NOX	CO	SO2	Exhaust PM10	Total PM10	Exhaust PM2.5	Total PM2.5										
3.4 Grading - 2023 and 3.5 Drainage/Utilities/Sub-Grade - 2023	3.0	26.5	130.6	0.3	0.5	4.1	0.5	2.0										
3.7 Building Construction - 2025 and 3.8 Architectural Coating and 3.9 Paving - 2025	39.5	20.6	87.9	0.2	0.4	1.3	0.4	0.6										
<b>Project Daily Maximum Emissions</b>	<b>39.46</b>	<b>26.47</b>	<b>130.55</b>	<b>0.29</b>	<b>0.49</b>	<b>4.15</b>	<b>0.49</b>	<b>2.02</b>										



Wiley Canyon

Regional Emissions -- Unmitigated

SEP updates

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Air Quality Construction Analysis

Summer Regional Emissions Source	Onsite Emissions								Offsite Emissions									
	ROG	NOX	CO	SO2	Exhaust PM10 lb/day	Total PM10	Exhaust PM2.5	Total PM2.5	ROG	NOX	CO	SO2	Fugitive PM10 lb/day	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
3.2 Demolition - 2023	3.33	26.93	33.53	0.07	1.18	2.19	1.12	1.27	0.02	0.72	1.30	0.01	0.09	0.01	0.09	0.02	0.01	0.02
3.3 Site Preparation - 2023	2.55	23.77	23.12	0.05	1.03	1.45	0.96	1.01	0.01	0.36	0.65	0.00	0.04	0.00	0.05	0.01	0.00	0.01
3.4 Grading - 2023	7.72	80.11	59.32	0.14	3.27	6.17	3.02	4.37	0.07	11.20	9.74	0.06	0.65	0.08	0.72	0.16	0.07	0.23
3.5 Drainage/Utilities/Sub-grade - 2023	3.81	33.03	39.43	0.08	1.51	1.51	1.43	1.43	0.02	1.37	1.80	0.01	0.12	0.01	0.13	0.03	0.01	0.04
3.5 Drainage/Utilities/Sub-grade - 2024	3.64	30.72	39.37	0.08	1.36	1.36	1.29	1.29	0.04	1.41	2.83	0.01	0.21	0.01	0.22	0.04	0.01	0.05
3.6 Foundations/Concrete Pour - 2024	2.90	25.92	28.11	0.05	1.22	3.75	1.15	2.46	0.07	1.05	4.30	0.01	0.32	0.01	0.33	0.06	0.01	0.07
3.7 Building Construction - 2024	3.26	24.91	31.18	0.05	1.11	1.11	1.08	1.08	0.08	3.58	6.29	0.03	0.45	0.03	0.48	0.09	0.03	0.12
3.7 Building Construction - 2025	3.06	23.40	31.05	0.05	0.95	0.95	0.92	0.92	0.08	3.46	6.00	0.03	0.45	0.03	0.48	0.09	0.03	0.12
3.8 Architectural Coating - 2025	38.19	11.30	14.48	0.02	0.49	0.49	0.47	0.47	0.02	0.08	1.02	0.00	0.08	0.00	0.09	0.02	0.00	0.02
3.9 Paving - 2025	2.04	17.67	23.51	0.04	0.81	0.81	0.75	0.75	0.04	4.70	4.72	0.03	0.33	0.03	0.36	0.08	0.03	0.11
Regional Emissions	ROG	NOX	CO	SO2	Exhaust PM10	Total PM10	Exhaust PM2.5	Total PM2.5										
3.2 Demolition - 2023	3.34	27.64	34.83	0.07	1.18	2.29	1.12	1.30										
3.3 Site Preparation - 2023	2.56	24.12	23.77	0.06	1.04	1.49	0.96	1.02										
3.4 Grading - 2023	7.80	91.31	69.06	0.20	3.35	6.89	3.10	4.61										
3.5 Drainage/Utilities/Sub-grade - 2023	3.83	34.39	41.23	0.09	1.52	1.64	1.44	1.47										
3.5 Drainage/Utilities/Sub-grade - 2024	3.68	32.12	42.21	0.10	1.37	1.58	1.30	1.34										
3.6 Foundations/Concrete Pour - 2024	2.97	26.96	32.41	0.06	1.23	4.08	1.16	2.53										
3.7 Building Construction - 2024	3.34	28.49	37.47	0.08	1.14	1.59	1.10	1.20										
3.7 Building Construction - 2025	3.13	26.87	37.05	0.08	0.98	1.43	0.95	1.05										
3.8 Architectural Coating - 2025	38.20	11.37	15.50	0.03	0.50	0.58	0.47	0.48										
3.9 Paving - 2025	2.08	22.37	28.23	0.07	0.84	1.17	0.78	0.86										
Overlapping Phases																		
	ROG	NOX	CO	SO2	Exhaust PM10	Total PM10	Exhaust PM2.5	Total PM2.5										
3.4 Grading - 2023 and 3.5 Drainage/Utilities/Sub-Grade - 2023	11.6	125.7	110.3	0.3	4.9	8.5	4.5	6.1										
3.7 Building Construction - 2025 and 3.8 Architectural Coating and 3.9 Paving - 2025	43.4	60.6	80.8	0.2	2.3	3.2	2.2	2.4										
<b>Project Daily Maximum Emissions</b>	<b>43.42</b>	<b>125.70</b>	<b>110.29</b>	<b>0.29</b>	<b>4.87</b>	<b>8.53</b>	<b>4.54</b>	<b>6.07</b>										

Wiley Canyon  
Regional Emissions -- Unmitigated  
Air Quality Construction Analysis

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Winter Regional Emissions Source	Onsite Emissions								Offsite Emissions									
	ROG	NOX	CO	SO2	Exhaust PM10 lb/day	Total PM10	Exhaust PM2.5	Total PM2.5	ROG	NOX	CO	SO2	Fugitive PM10 lb/day	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
3.2 Demolition - 2023	3.33	26.93	33.53	0.069	1.18	2.19	1.12	1.27	0.02	0.72	1.30	0.01	0.09	0.01	0.09	0.02	0.01	0.02
3.3 Site Preparation - 2023	2.55	23.77	23.12	0.053	1.03	1.45	0.96	1.01	0.01	0.36	0.65	0.00	0.04	0.00	0.05	0.01	0.00	0.01
3.4 Grading - 2023	7.72	80.11	59.32	0.142	3.27	6.17	3.02	4.37	0.07	11.20	9.74	0.06	0.65	0.08	0.72	0.16	0.07	0.23
3.5 Drainage/Utilities/Sub-grade - 2023	3.81	33.03	39.43	0.084	1.51	1.51	1.43	1.43	0.02	1.37	1.80	0.01	0.12	0.01	0.13	0.03	0.01	0.04
3.5 Drainage/Utilities/Sub-grade - 2024	3.64	30.72	39.37	0.084	1.36	1.36	1.29	1.29	0.04	1.41	2.83	0.01	0.21	0.01	0.22	0.04	0.01	0.05
3.6 Foundations/Concrete Pour - 2024	2.90	25.92	28.11	0.051	1.22	3.75	1.15	2.46	0.07	1.05	4.30	0.01	0.32	0.01	0.33	0.06	0.01	0.07
3.7 Building Construction - 2024	3.26	24.91	31.18	0.052	1.11	1.11	1.08	1.08	0.08	3.58	6.29	0.03	0.45	0.03	0.48	0.09	0.03	0.12
3.7 Building Construction - 2025	3.06	23.40	31.05	0.052	0.95	0.95	0.92	0.92	0.08	3.46	6.00	0.03	0.45	0.03	0.48	0.09	0.03	0.12
3.8 Architectural Coating - 2025	38.19	11.30	14.48	0.025	0.49	0.49	0.47	0.47	0.02	0.08	1.02	0.00	0.08	0.00	0.09	0.02	0.00	0.02
3.9 Paving - 2025	2.04	17.67	23.51	0.040	0.81	0.807	0.75	0.75	0.04	4.70	4.72	0.03	0.33	0.03	0.36	0.08	0.03	0.11
Regional Emissions	ROG	NOX	CO	SO2	Exhaust PM10	Total PM10	Exhaust PM2.5	Total PM2.5										
3.2 Demolition - 2023	3.3	27.6	34.8	0.1	1.2	2.3	1.1	1.3										
3.3 Site Preparation - 2023	2.6	24.1	23.8	0.1	1.0	1.5	1.0	1.0										
3.4 Grading - 2023	7.8	91.3	69.1	0.2	3.3	6.9	3.1	4.6										
3.5 Drainage/Utilities/Sub-grade - 2023	3.8	34.4	41.2	0.1	1.5	1.6	1.4	1.5										
3.5 Drainage/Utilities/Sub-grade - 2024	3.7	32.1	42.2	0.1	1.4	1.6	1.3	1.3										
3.6 Foundations/Concrete Pour - 2024	3.0	27.0	32.4	0.1	1.2	4.1	1.2	2.5										
3.7 Building Construction - 2024	3.3	28.5	37.5	0.1	1.1	1.6	1.1	1.2										
3.7 Building Construction - 2025	3.1	26.9	37.1	0.1	1.0	1.4	1.0	1.0										
3.8 Architectural Coating - 2025	38.2	11.4	15.5	0.0	0.5	0.6	0.5	0.5										
3.9 Paving - 2025	2.1	22.4	28.2	0.1	0.8	1.2	0.8	0.9										
Overlapping Phases																		
	ROG	NOX	CO	SO2	Exhaust PM10	Total PM10	Exhaust PM2.5	Total PM2.5										
3.4 Grading - 2023 and 3.5 Drainage/Utilities/Sub-Grade - 2023	11.6	125.7	110.3	0.3	4.9	8.5	4.5	6.1										
3.7 Building Construction - 2025 and 3.8 Architectural Coating and 3.9 Paving - 2025	43.4	60.6	80.8	0.2	2.3	3.2	2.2	2.4										
<b>Project Daily Maximum Emissions</b>	<b>43.42</b>	<b>125.70</b>	<b>110.29</b>	<b>0.29</b>	<b>4.87</b>	<b>8.53</b>	<b>4.54</b>	<b>6.07</b>										



**Wiley Canyon**  
Total On-Road Emissions

**Wiley Canyon**  
Total On-Road Emissions

Construction Phase	Daily One-Way Trips	Haul Days per Phase (days)	Work Hours per Day (hours/day)	One-Way Trip Distance per Day (miles)	Idling per Day (minutes)	Regional Emissions (pounds/day)											Total CO2e (MT/yr)
						ROG	NOX	CO	SO2	PM10 Dust	PM10 Exh	Total PM10	PM2.5 Dust	PM2.5 Exh	Total PM2.5		
260 Max construction days per year																	
<b>Demolition 2023</b>																	
Total Haul Trips	16																
Hauling	4	14	8	20	15	0.00	0.65	0.50	0.00	0.03	0.00	0.04	0.01	0.00	0.01	2.30	
Vendor	0	14	8	6.9	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Worker	20	14	8	15	0	0.01	0.06	0.80	0.00	0.06	0.00	0.06	0.01	0.00	0.01	1.34	
					Total:	0.02	0.72	1.30	0.01	0.09	0.01	0.09	0.02	0.01	0.02	3.64	
<b>Site Preparation 2023</b>																	
Total Haul Trips	6																
Hauling	2	14	8	20	15	0.00	0.33	0.25	0.00	0.02	0.00	0.02	0.00	0.00	0.01	1.15	
Vendor	0	14	8	6.9	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Worker	10	14	8	15	0	0.01	0.03	0.40	0.00	0.03	0.00	0.03	0.01	0.00	0.01	0.67	
					Total:	0.01	0.36	0.65	0.00	0.04	0.00	0.05	0.01	0.00	0.01	1.82	
<b>Grading 2023</b>																	
Total Haul Trips	13078																
Hauling	68	193	8	20	15	0.05	11.10	8.54	0.05	0.56	0.07	0.64	0.15	0.07	0.22	538.73	
Vendor	0	193	8	6.9	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Worker	30	193	8	15	0	0.02	0.09	1.20	0.00	0.08	0.00	0.09	0.02	0.00	0.02	27.76	
					Total:	0.07	11.20	9.74	0.06	0.65	0.08	0.72	0.16	0.07	0.23	566.49	
<b>Drainage/Utilities/Sub-Grade 2023</b>																	
Total Haul Trips	1128																
Hauling	8	141	8	20	15	0.01	1.31	1.01	0.01	0.07	0.01	0.07	0.02	0.01	0.03	46.30	
Vendor	0	141	8	6.9	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Worker	20	141	8	15	0	0.01	0.06	0.80	0.00	0.06	0.00	0.06	0.01	0.00	0.01	13.52	
					Total:	0.02	1.37	1.80	0.01	0.12	0.01	0.13	0.03	0.01	0.04	59.82	
<b>Drainage/Utilities/Sub-Grade 2024</b>																	
Total Haul Trips	16																
Hauling	8	2	8	20	15	0.01	1.27	0.99	0.01	0.07	0.01	0.07	0.02	0.01	0.03	0.65	
Vendor	0	2	8	6.9	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Worker	50	2	8	15	0	0.03	0.14	1.84	0.01	0.14	0.00	0.14	0.03	0.00	0.03	0.47	
					Total:	0.04	1.41	2.83	0.01	0.21	0.01	0.22	0.04	0.01	0.05	1.11	
<b>Foundations/Concrete Pour 2024</b>																	
Total Haul Trips	340																
Hauling	4	85	8	20	15	0.00	0.63	0.50	0.00	0.03	0.00	0.04	0.01	0.00	0.01	13.72	
Vendor	0	85	8	6.9	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Worker	50	85	8	15	0	0.03	0.14	1.84	0.01	0.14	0.00	0.14	0.03	0.00	0.03	19.88	
					Total:	0.04	0.77	2.33	0.01	0.17	0.01	0.18	0.03	0.01	0.04	33.60	
<b>Building Construction 2024</b>																	
Total Haul Trips	3520																
Hauling	20	176	8	20	15	0.01	3.17	2.49	0.02	0.16	0.02	0.19	0.04	0.02	0.06	142.06	
Vendor	470	176	8	6.9	15	0.29	31.72	30.15	0.13	1.11	0.13	1.24	0.27	0.13	0.40	1192.58	
Worker	100	176	8	15	0	0.07	0.28	3.67	0.01	0.28	0.01	0.29	0.05	0.01	0.06	82.32	
					Total:	0.37	35.16	36.31	0.16	1.55	0.16	1.71	0.37	0.15	0.52	1416.96	
<b>Building Construction 2025</b>																	
Total Haul Trips	4360																
Hauling	20	218	8	20	15	0.01	3.08	2.46	0.02	0.16	0.02	0.19	0.04	0.02	0.06	172.74	
Vendor	470	218	8	6.9	15	0.28	30.83	29.71	0.13	1.11	0.13	1.23	0.27	0.12	0.40	1451.30	
Worker	100	218	8	15	0	0.06	0.25	3.41	0.01	0.28	0.01	0.29	0.05	0.01	0.06	99.59	
					Total:	0.35	34.16	35.59	0.15	1.55	0.15	1.70	0.37	0.15	0.51	1723.63	
<b>Architectural Coating 2025</b>																	
Total Haul Trips	0																
Hauling	0	113	8	20	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Vendor	0	113	8	6.9	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Worker	30	113	8	15	0	0.02	0.08	1.02	0.00	0.08	0.00	0.09	0.02	0.00	0.02	15.49	
					Total:	0.02	0.08	1.02	0.00	0.08	0.00	0.09	0.02	0.00	0.02	15.49	
<b>Paving 2025</b>																	
Total Haul Trips	1140																
Hauling	30	38	8	20	15	0.02	4.62	3.69	0.02	0.25	0.03	0.28	0.06	0.03	0.09	45.17	
Vendor	0	38	8	6.9	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Worker	30	38	8	15	0	0.02	0.08	1.02	0.00	0.08	0.00	0.09	0.02	0.00	0.02	5.21	
					Total:	0.04	4.70	4.72	0.03	0.33	0.03	0.36	0.08	0.03	0.11	50.37	



**Wiley Canyon  
Running Emissions**

	Running Emissions Factor (grams/mile)						Running Emissions Factor (grams/mile)		
	ROG	NOX	CO	SO2	PM10	PM2.5	CO2	CH4	N2O
2023Hauling Hauling	0.0158373	1.8463491	0.532168	0.0144018	0.0233555	0.0223402	1582.1659	0.0748584	0.2520485
2023Vendor Vendor	0.025174	1.4130096	0.5316371	0.013041	0.0170459	0.0163012	1404.0401	0.0416683	0.1941139
2023Worker Worker	0.0225303	0.094097	1.205326	0.0031369	0.0019011	0.00175	317.32672	0.0053007	0.0075279
2024Hauling Hauling	0.0150017	1.7579669	0.5097505	0.014167	0.0231978	0.0221896	1557.2129	0.071144	0.2481168
2024Vendor Vendor	0.0222103	1.3246635	0.4775101	0.0128495	0.0164029	0.0156863	1384.2332	0.0394942	0.1918121
2024Worker Worker	0.0199609	0.0841257	1.111218	0.0030613	0.0017871	0.0016448	309.685	0.0047538	0.0069466
2025Hauling Hauling	0.0143118	1.6829041	0.4934553	0.0139096	0.0228274	0.0218354	1529.9722	0.0679938	0.2438258
2025Vendor Vendor	0.0196276	1.2436307	0.4334653	0.0126263	0.0156675	0.0149829	1361.1455	0.0376832	0.189104
2025Worker Worker	0.0178719	0.0758025	1.032105	0.0029912	0.0016986	0.0015632	302.58456	0.004302	0.0064524
2026Hauling Hauling	0.0136822	1.614054	0.4768479	0.0136454	0.0226378	0.0216543	1501.9816	0.064764	0.2394115
2026Vendor Vendor	0.0175074	1.1692141	0.3976567	0.0123973	0.015099	0.0144393	1337.3755	0.0359063	0.1862605
2026Worker Worker	0.0160685	0.068749	0.963886	0.0029273	0.0016094	0.001481	296.12397	0.0039084	0.006034
GWP	N/A	N/A	N/A	N/A	N/A	N/A	1	25	290



**Wiley Canyon  
Running Emissions**

	Running Emissions Factor (grams/mile)						Running Emissions Factor (grams/mile)		
	ROG	NOX	CO	SO2	PM10	PM2.5	CO2	CH4	N2O
	2023Hauling Hauling	0.0158373	1.8463491	0.532168	0.0144018	0.0233555	0.0223402	1582.1659	0.0748584
2023Vendor Vendor	0.025174	1.4130096	0.5316371	0.013041	0.0170459	0.0163012	1404.0401	0.0416683	0.1941139
2023Worker Worker	0.0225303	0.094097	1.205326	0.0031369	0.0019011	0.00175	317.32672	0.0053007	0.0075279
2024Hauling Hauling	0.0150017	1.7579669	0.5097505	0.014167	0.0231978	0.0221896	1557.2129	0.071144	0.2481168
2024Vendor Vendor	0.0222103	1.3246635	0.4775101	0.0128495	0.0164029	0.0156863	1384.2332	0.0394942	0.1918121
2024Worker Worker	0.0199609	0.0841257	1.111218	0.0030613	0.0017871	0.0016448	309.685	0.0047538	0.0069466
2025Hauling Hauling	0.0143118	1.6829041	0.4934553	0.0139096	0.0228274	0.0218354	1529.9722	0.0679938	0.2438258
2025Vendor Vendor	0.0196276	1.2436307	0.4334653	0.0126263	0.0156675	0.0149829	1361.1455	0.0376832	0.189104
2025Worker Worker	0.0178719	0.0758025	1.032105	0.0029912	0.0016986	0.0015632	302.58456	0.004302	0.0064524
2026Hauling Hauling	0.0136822	1.614054	0.4768479	0.0136454	0.0226378	0.0216543	1501.9816	0.064764	0.2394115
2026Vendor Vendor	0.0175074	1.1692141	0.3976567	0.0123973	0.015099	0.0144393	1337.3755	0.0359063	0.1862605
2026Worker Worker	0.0160685	0.068749	0.963886	0.0029273	0.0016094	0.001481	296.12397	0.0039084	0.006034
GWP	N/A	N/A	N/A	N/A	N/A	N/A	1	25	290

Construction Phase	Daily One-Way Trips	Haul Days per Phase (days)	Work Hours per Day (hours/day)	One-Way Trip Distance per Day (miles)	Regional Emissions (pounds/day)						Regional Emissions (MT/year)			
					ROG	NOX	CO	SO2	PM10	PM2.5	CO2	CH4	N2O	CO2e
					Total Haul Trips	3520								
Hauling	20	176	8	20	0.01	1.55	0.45	0.01	0.02	0.02	109.63	0.13	5.07	114.82
Vendor	470	176	8	6.9	0.16	9.47	3.41	0.09	0.12	0.11	790.08	0.56	31.75	822.39
Worker	100	176	8	15	0.07	0.28	3.67	0.01	0.01	0.01	81.76	0.03	0.53	82.32
<b>Building Construction</b>	<b>2025</b>													
Total Haul Trips	4360													
Hauling	20	218	8	20	0.01	1.48	0.44	0.01	0.02	0.02	133.41	0.15	6.17	139.73
Vendor	470	218	8	6.9	0.14	8.89	3.10	0.09	0.11	0.11	962.29	0.67	38.77	1001.73
Worker	100	218	8	15	0.06	0.25	3.41	0.01	0.01	0.01	98.95	0.04	0.61	99.59
<b>Architectural Coating</b>	<b>2025</b>													
Total Haul Trips	0													
Hauling	0	113	8	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	113	8	6.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	30	113	8	15	0.02	0.08	1.02	0.00	0.00	0.00	15.39	0.01	0.10	15.49

**Wiley Canyon  
Idling Emissions**

	Idling Emissions Factor (grams/minute)						Idling Emissions Factor (grams/minute)		
	ROG	NOX	CO	SO2	PM10	PM2.5	CO2	CH4	N2O
2023Hauling Hauling	0.001532	2.475441	3.090077	0.004455	0.001462	0.001396	501.4593	0.092221	0.080439
2023Vendor Vendor	0.008739	1.452222	1.7264	0.002583	0.001243	0.001188	289.3932	0.051394	0.046051
2023Worker Worker	0	0	0	0	0	0	0	0	0
2024Hauling Hauling	0.00209	2.445313	3.07903	0.004353	0.001377	0.001315	490.827	0.090521	0.078771
2024Vendor Vendor	0.008703	1.43144	1.720003	0.002531	0.00112	0.001071	283.9719	0.050668	0.045218
2024Worker Worker	0	0	0	0	0	0	0	0	0
2025Hauling Hauling	0.003322	2.416879	3.066235	0.00425	0.00131	0.00125	480.1857	0.089149	0.077104
2025Vendor Vendor	0.009002	1.411457	1.712315	0.002476	0.001014	0.000969	278.3974	0.050081	0.044361
2025Worker Worker	0	0	0	0	0	0	0	0	0
2026Hauling Hauling	0.004824	2.390355	3.053594	0.004151	0.001246	0.001189	469.9432	0.088036	0.075501
2026Vendor Vendor	0.009469	1.392753	1.704658	0.002423	0.000921	0.000879	272.9529	0.049605	0.043524
2026Worker Worker	0	0	0	0	0	0	0	0	0
GWP	N/A	N/A	N/A	N/A	N/A	N/A	1	25	290







**Wiley Canyon**  
**Road Dust, Break Wear, and Tire wear Emissions**

	Emission Factors (grams/mile)					
	PM10			PM2.5		
	RD	BW	TW	RD	BW	TW
2023Hauling Hauling	6.72E-02	0.084714206	0.03543552	1.01E-02	0.02964997	0.00885888
2023Vendor Vendor	6.72E-02	0.064163683	0.02371776	1.01E-02	0.02245729	0.00592944
2023Worker Worker	6.72E-02	0.009477692	0.008	1.01E-02	0.00331719	0.002
2024Hauling Hauling	6.72E-02	0.08427948	0.03543928	1.01E-02	0.02949782	0.00885982
2024Vendor Vendor	6.72E-02	0.063890978	0.02371964	1.01E-02	0.02236184	0.00592991
2024Worker Worker	6.72E-02	0.009419633	0.008	1.01E-02	0.00329687	0.002
2025Hauling Hauling	6.72E-02	0.084162962	0.03544313	1.01E-02	0.02945704	0.00886078
2025Vendor Vendor	6.72E-02	0.063767774	0.02372157	1.01E-02	0.02231872	0.00593039
2025Worker Worker	6.72E-02	0.009385513	0.008	1.01E-02	0.00328493	0.002
2026Hauling Hauling	6.72E-02	0.084352575	0.03544711	1.01E-02	0.0295234	0.00886178
2026Vendor Vendor	6.72E-02	0.063787152	0.02372356	1.01E-02	0.0223255	0.00593089
2026Worker Worker	6.72E-02	0.009353635	0.008	1.01E-02	0.00327377	0.002



**Wiley Canyon  
Road Dust, Break Wear, and Tire wear Emissions**

	Emission Factors (grams/mile)					
	PM10			PM2.5		
	RD	BW	TW	RD	BW	TW
2023Hauling Hauling	6.72E-02	0.084714206	0.03543552	1.01E-02	0.02964997	0.00885888
2023Vendor Vendor	6.72E-02	0.064163683	0.02371776	1.01E-02	0.02245729	0.00592944
2023Worker Worker	6.72E-02	0.009477692	0.008	1.01E-02	0.00331719	0.002
2024Hauling Hauling	6.72E-02	0.08427948	0.03543928	1.01E-02	0.02949782	0.00885982
2024Vendor Vendor	6.72E-02	0.063890978	0.02371964	1.01E-02	0.02236184	0.00592991
2024Worker Worker	6.72E-02	0.009419633	0.008	1.01E-02	0.00329687	0.002
2025Hauling Hauling	6.72E-02	0.084162962	0.03544313	1.01E-02	0.02945704	0.00886078
2025Vendor Vendor	6.72E-02	0.063767774	0.02372157	1.01E-02	0.02231872	0.00593039
2025Worker Worker	6.72E-02	0.009385513	0.008	1.01E-02	0.00328493	0.002
2026Hauling Hauling	6.72E-02	0.084352575	0.03544711	1.01E-02	0.0295234	0.00886178
2026Vendor Vendor	6.72E-02	0.063787152	0.02372356	1.01E-02	0.0223255	0.00593089
2026Worker Worker	6.72E-02	0.009353635	0.008	1.01E-02	0.00327377	0.002

Construction Phase	Daily One-Way Trips	Haul Days per Phase (days)	Work Hours per Day (hours/day)	One-Way Trip Distance per Day (miles)	Regional Emissions (pounds/day)					
					PM10			PM2.5		
					RD	BW	TW	RD	BW	TW
Worker	50	2	8	15	0.11	0.02	0.01	0.02	0.01	0.00
<u>Foundations/Concrete Pouring</u>	2024									
Total Haul Trips	340									
Hauling	4	85	8	20	0.01	0.01	0.01	0.00	0.01	0.00
Vendor	0	85	8	6.9	0.00	0.00	0.00	0.00	0.00	0.00
Worker	50	85	8	15	0.11	0.02	0.01	0.02	0.01	0.00
<u>Building Construction</u>	2024									
Total Haul Trips	3520									
Hauling	20	176	8	20	0.06	0.07	0.03	0.01	0.03	0.01
Vendor	470	176	8	6.9	0.48	0.46	0.17	0.07	0.16	0.04
Worker	100	176	8	15	0.22	0.03	0.03	0.03	0.01	0.01
<u>Building Construction</u>	2025									
Total Haul Trips	4360									
Hauling	20	218	8	20	0.06	0.07	0.03	0.01	0.03	0.01
Vendor	470	218	8	6.9	0.48	0.46	0.17	0.07	0.16	0.04
Worker	100	218	8	15	0.22	0.03	0.03	0.03	0.01	0.01
<u>Architectural Coating</u>	2025									
Total Haul Trips	0									
Hauling	0	113	8	20	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	113	8	6.9	0.00	0.00	0.00	0.00	0.00	0.00
Worker	30	113	8	15	0.07	0.01	0.01	0.01	0.00	0.00

**Wiley Canyon**  
**Total On-Road Fuel Consumption**

	gal/mile	gal/min
2023Hauling Hauling	0.16744049	2.63411E-07
2023Vendor Vendor	0.1400083	7.56451E-07
2023Worker Worker	0.03916418	9.57885E-07
2024Hauling Hauling	0.16534457	1.98496E-07
2024Vendor Vendor	0.13876713	6.53915E-07
2024Worker Worker	0.03843741	8.66366E-07
2025Hauling Hauling	0.16305171	1.95685E-07
2025Vendor Vendor	0.13736272	6.50149E-07
2025Worker Worker	0.0377809	8.51473E-07
2026Hauling Hauling	0.16075668	2.00057E-07
2026Vendor Vendor	0.1359573	6.52676E-07
2026Worker Worker	0.03711869	8.35632E-07

**Wiley Canyon**  
**Total On-Road Fuel Consumption**

Source	Fuel Type	Total Fuel Use (gal)
Hauling	Diesel	75,044
Vendor	Diesel	176,317
Worker	Gasoline	30,435

Fuel Type	Total Fuel Use	Annual Fuel Use
Diesel	251,361	127,603
Gasoline	30,435	15,450

Duration of Construction
2.0 years

**Wiley Canyon**  
Total On-Road Fuel Consumption

		gal/mile	gal/min
2023	Hauling Hauling	0.16744049	2.63411E-07
2023	Vendor Vendor	0.1400083	7.56451E-07
2023	Worker Worker	0.03916418	9.57885E-07
2024	Hauling Hauling	0.16534457	1.98496E-07
2024	Vendor Vendor	0.13876713	6.53915E-07
2024	Worker Worker	0.03843741	8.66366E-07
2025	Hauling Hauling	0.16305171	1.95685E-07
2025	Vendor Vendor	0.13736272	6.50149E-07
2025	Worker Worker	0.0377809	8.51473E-07
2026	Hauling Hauling	0.16075668	2.00057E-07
2026	Vendor Vendor	0.1359573	6.52676E-07
2026	Worker Worker	0.03711869	8.35632E-07

**Wiley Canyon**  
Total On-Road Fuel Consumption

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Hauling	Diesel	75,044
Vendor	Diesel	176,317
Worker	Gasoline	30,435

Fuel Type	Total Fuel Use	Annual Fuel Use
Diesel	251,361	127,603
Gasoline	30,435	15,450

Duration of Construction
2.0 years

Construction Phase	Daily One-Way Trips	Haul Days per Phase (days)	Work Hours per Day (hours/day)	One-Way Trip Distance per Day (miles)	Idling per Day (minutes)	Regional Emissions (gallons)				
						gal/mile	gal/min	gal/day	Total Gallons/yr	
<u>Demolition</u>										
2023										
Total Haul Trips										
16										
Hauling										
4										
14										
8										
20										
15										
0.17										
2.63E-07										
13										
188										
Vendor										
0										
14										
8										
15										
0.14										
7.56E-07										
0										
0										
Worker										
20										
14										
8										
15										
0										
0.04										
9.58E-07										
12										
164										
<u>Site Preparation</u>										
2023										
Total Haul Trips										
6										
Hauling										
2										
14										
8										
20										
15										
0.17										
2.63E-07										
7										
94										
Vendor										
0										
14										
8										
15										
0.14										
7.56E-07										
0										
0										
Worker										
10										
14										
8										
15										
0										
0.04										
9.58E-07										
6										
82										
<u>Grading</u>										
2023										
Total Haul Trips										
13078										
Hauling										
68										
193										
8										
20										
15										
0.17										
2.63E-07										
228										
43,950										
Vendor										
0										
193										
8										
15										
0.14										
7.56E-07										
0										
0										
Worker										
30										
193										
8										
15										
0										
0.04										
9.58E-07										
18										
3,401										
<u>Drainage/Utilities/Sub-Grade</u>										
2023										
Total Haul Trips										
1128										
Hauling										
8										
141										
8										
20										
15										
0.17										
2.63E-07										
27										
3,777										
Vendor										
0										
141										
8										
15										
0.14										
7.56E-07										
0										
0										
Worker										
20										
141										
8										
15										
0										
0.04										
9.58E-07										
12										
1,657										
<u>Drainage/Utilities/Sub-Grade</u>										
2024										
Total Haul Trips										
16										
Hauling										
8										
2										
8										
20										
15										
0.17										
1.98E-07										
26										
53										
Vendor										
0										
2										
8										
6.9										
15										
0.14										
6.54E-07										
0										
0										
Worker										
50										
2										
8										
15										
0										
0.04										
8.66E-07										
29										
58										

**Wiley Canyon**  
Total On-Road Fuel Consumption

		gal/mile	gal/min
2023	Hauling Hauling	0.16744049	2.63411E-07
2023	Vendor Vendor	0.1400083	7.56451E-07
2023	Worker Worker	0.03916418	9.57885E-07
2024	Hauling Hauling	0.16534457	1.98496E-07
2024	Vendor Vendor	0.13876713	6.53915E-07
2024	Worker Worker	0.03843741	8.66366E-07
2025	Hauling Hauling	0.16305171	1.95685E-07
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2025	Worker Worker	0.0377809	8.51473E-07
2026	Hauling Hauling	0.16075668	2.00057E-07
2026	Vendor Vendor	0.1359573	6.52676E-07
2026	Worker Worker	0.03711869	8.35632E-07

**Wiley Canyon**  
Total On-Road Fuel Consumption

Source	Fuel Type	Total Fuel Use (gal)
Hauling	Diesel	75,044
Vendor	Diesel	176,317
Worker	Gasoline	30,435

Fuel Type	Total Fuel Use	Annual Fuel Use
Diesel	251,361	127,603
Gasoline	30,435	15,450

Duration of Construction
2.0 years

Construction Phase	Daily One-Way Trips	Haul Days per Phase (days)	Work Hours per Day (hours/day)	One-Way Trip Distance per Day (miles)	Idling per Day (minutes)	Regional Emissions (gallons)			
						gal/mile	gal/min	gal/day	Total Gallons/yr
<u>Foundations/Concrete Pour</u>									
2024									
Total Haul Trips									
340									
Hauling									
4									
85									
8									
20									
15									
0.17									
1.98E-07									
13									
1,124									
Vendor									
0									
85									
8									
6.9									
15									
0.14									
6.54E-07									
0									
0									
Worker									
50									
85									
8									
15									
0									
0.04									
8.66E-07									
29									
2,450									
<u>Building Construction</u>									
2024									
Total Haul Trips									
3520									
Hauling									
20									
176									
8									
20									
15									
0.17									
1.98E-07									
66									
11,640									
Vendor									
470									
176									
8									
6.9									
15									
0.14									
6.54E-07									
450									
79,204									
Worker									
100									
176									
8									
15									
0									
0.04									
8.66E-07									
58									
10,147									
<u>Building Construction</u>									
2025									
Total Haul Trips									
4360									
Hauling									
20									
218									
8									
20									
15									
0.16									
1.96E-07									
65									
14,218									
Vendor									
470									
218									
8									
6.9									
15									
0.14									
6.50E-07									
445									
97,112									
Worker									
100									
218									
8									
15									
0									
0.04									
8.51E-07									
57									
12,354									
<u>Architectural Coating</u>									
2025									
Total Haul Trips									
0									
Hauling									
0									
113									
8									
20									
15									
0.16									
1.96E-07									
0									
0									
Vendor									
0									
113									
8									
6.9									
15									
0.14									
6.50E-07									
0									
0									
Worker									
30									
113									
8									
15									
0									
0.04									
8.51E-07									
17									
120									

**Wiley Canyon  
Road Dust**

**Paved Road Dust Emission Factors (Assumes No Precipitation)**

Formula:  $EF_{Dust,P} = (k (sL)^{0.91} \times (W)^{1.02}) \times (1-P/4N)$

Where:

$EF_{Dust,P}$  = k  
k = particle size multiplier  
sL = road surface silt loading (g/m<sup>2</sup>)  
W = average fleet vehicle weight (tons) (CARB uses 2.4 tons as a fleet average vehicle weight factor)  
P = number of "wet" days, when at least one site per county received at least 0.01 inch of precipitation during the annual  
N = the number of days in the annual averaging period (default = 365)

	Emission Factor (grams per VMT)	
	PM10	PM2.5
k	1.0000	0.1500
sL	0.01998	0.01998
W	2.4	2.4
P	46	46
N	365	365
$EF_{Dust,P}$	0.0672	0.0101

**Unpaved Road Dust Emission Factors (Assumes No Precipitation)**

Formula:  $EF_{Dust,U} = (k (s / 12)^1 \times (Sp / 30)^{0.5} / (M / 0.5)^{0.2}) - C$

Where:

$EF_{Dust,U}$  = Unpaved Road Dust Emission Factor (having the same units as k)  
k = particle size multiplier  
s = surface material silt content (%)  
Sp = mean vehicle speed (mph)  
M = surface material moisture content (%)  
C = Emission Factor for 1980s vehicle fleet exhaust, brake wear, and tire wear

	Emission Factor (grams per VMT)	
	PM10	PM2.5
k	816.47	81.65
s	4.3%	4.3%
Sp	15	15
M	0.5%	0.5%
C	0.00047	0.00036
$EF_{Dust,U}$	5.20E+00	5.19E-01

Sources:

SCAQMD, CalEEMod, Version 2011.1.

CARB, *Entrained Dust from Paved Road Travel: Emission Estimation Methodology Background Document*, (1997).

USEPA, *AP-42*, Fifth Edition, Volume I, Chapter 13.2.1 - Paved Roads, (2011).

PCR Services Corporation, 2013.

**Silt Loading Factor**

Source: CARB, 2021.

**Table 3: California Default Statewide and Local Silt Loading Values (Los Angeles County)**

Silt Loadings (g/m <sup>2</sup> )			
Freeway	Major	Collector	Local
0.015	0.013	0.013	0.135

**Table 2: Roadway Travel Fractions (Los Angeles County)**

2008 HPMS Travel Fractions			
0.44	0.44	0.07	0.05

**Wiley Canyon  
Road Dust**

**Paved Road Dust Emission Factors (Assumes No Precipitation)**

Formula:  $EF_{Dust,P} = (k (sL)^{0.91} \times (W)^{1.02}) \times (1-P/4N)$

Where:

$EF_{Dust,P}$  = k  
k = particle size multiplier  
sL = road surface silt loading (g/m<sup>2</sup>)  
W = average fleet vehicle weight (tons) (CARB uses 2.4 tons as a fleet average vehicle weight factor)  
P = number of "wet" days, when at least one site per county received at least 0.01 inch of precipitation during the annual  
N = the number of days in the annual averaging period (default = 365)

	Emission Factor (grams per VMT)	
	PM10	PM2.5
k	1.0000	0.1500
sL	0.01998	0.01998
W	2.4	2.4
P	46	46
N	365	365
$EF_{Dust,P}$	0.0672	0.0101

**Unpaved Road Dust Emission Factors (Assumes No Precipitation)**

Formula:  $EF_{Dust,U} = (k (s / 12)^1 \times (Sp / 30)^{0.5} / (M / 0.5)^{0.2}) - C$

Where:

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k = particle size multiplier  
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Sp = mean vehicle speed (mph)  
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C = Emission Factor for 1980s vehicle fleet exhaust, brake wear, and tire wear

	Emission Factor (grams per VMT)	
	PM10	PM2.5
k	816.47	81.65
s	4.3%	4.3%
Sp	15	15
M	0.5%	0.5%
C	0.00047	0.00036
$EF_{Dust,U}$	5.20E+00	5.19E-01

Sources:

- SCAQMD, CalEEMod, Version 2011.1.
- CARB, *Entrained Dust from Paved Road Travel: Emission Estimation Methodology Background Document*, (1997).
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2008 HPMS Travel Fractions			
0.44	0.44	0.07	0.05





**Wiley Canyon  
Air Quality and Greenhouse Gas Assessment**

**Localized Operational Emissions**

<b>Maximum Unmitigated Localized Operational Emissions (pounds per day) <sup>a</sup></b>				
<b>Source</b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
Area (Consumer Products, Landscaping)	0.57	49.25	0.27	0.27
Energy (Natural Gas)	2.16	0.93	0.17	0.17
<b>Total Project On-Site Emissions</b>	<b>3</b>	<b>50</b>	<b>0.4</b>	<b>0.4</b>
<b>SCAQMD Numeric Indicators</b>	<b>246.0</b>	<b>1644.0</b>	<b>3.0</b>	<b>2.0</b>
Over/(Under)	(243)	(1594)	(2.6)	(1.6)
<b>Exceeds Thresholds?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

*Localized significance thresholds from SCAQMD Look-Up tables, used a 5-acre site in SRA 13 with the nearest sensitive receptor within 25 meters from the Site.*

Wiley Canyon  
Air Quality and GHG Assessment  
Operational Mobile Emissions

Criteria Pollutant Emission Factors (lb/mile)

Year	Weekday Daily VMT	ROG	NOx	CO	SOx	PM10 Road Dust	PM10	PM10 Total	PM2_5 Road Dust	PM2_5	PM2.5 Total
2025	29,175	3.10E-04	4.28E-04	2.90E-03	8.07E-06	1.48E-04	5.67E-05	2.05E-04	2.22E-05	2.13E-05	4.35E-05
2025	24,148	3.10E-04	4.28E-04	2.90E-03	8.07E-06	1.48E-04	5.67E-05	2.05E-04	2.22E-05	2.13E-05	4.35E-05

Project  
Mitigated

GHG Emissions (metric tons/mile)

Year	Weekday Daily VMT	CO2	CH4	N2O	CO2e
2025	29,175	3.79E-04	1.92E-08	1.99E-08	3.85E-04
2025	24,148	3.79E-04	1.92E-08	1.99E-08	3.85E-04

Criteria Pollutant Emissions (pounds/day)

Year	Weekday Daily VMT	ROG	NOx	CO	SOx	PM10 Road Dust	PM10	PM10 Total	PM2_5 Road Dust	PM2_5	PM2.5 Total
2025	29,175	9.04	12.48	84.69	0.24	4.32	1.65	5.98	0.65	0.62	1.27
2025	24,148	7.48	10.33	70.09	0.19	3.58	1.37	4.95	0.54	0.51	1.05

GHG Emissions (metric tons/year)

Year	Weekday Daily VMT	CO2	CH4	N2O	CO2e
		1	25	298	
2025	29,175	4,032.29	0.20	0.21	4,100.46
2025	24,148	3,337.39	0.17	0.18	3,393.81

Source: Stantec Wiley Canyon Mixed-Use Traffic Analysis



# Exhibit B

## CalEEMod Outputs





Wiley Canyon - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Wiley Canyon**

**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.91	1000sqft	0.20	8,914.00	0
Enclosed Parking Structure	602.00	Space	5.42	240,800.00	0
Parking Lot	143.00	Space	1.29	57,200.00	0
City Park	15.00	Acre	15.00	653,400.00	0
Health Club	2.40	1000sqft	0.06	2,400.00	0
Recreational Swimming Pool	2.07	1000sqft	0.05	2,070.00	0
Apartments Mid Rise	379.00	Dwelling Unit	8.79	382,972.00	1084
Retirement Community	217.00	Dwelling Unit	6.36	277,108.00	621
Enclosed Parking Structure	48.00	Space	0.43	19,200.00	0
Parking Lot	176.00	Space	1.58	70,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - See SCE EF Forecast

Land Use - See Construction Assumptions

Construction Phase - See Construction Assumptions

Wiley Canyon - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Equipment
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Constructions Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Trips and VMT - Trips and VMT calculated outside of CalEEMod
- Demolition -
- Grading -
- Woodstoves - No Wood Stoves or fire places
- Energy Use -
- Construction Off-road Equipment Mitigation - Mitigation
- Water Mitigation -
- Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,657.00	7,749.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,971.00	23,246.00
tblArchitecturalCoating	ConstArea_Parking	26,160.00	22,584.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	445,554.00	427,345.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,336,662.00	1,282,036.00
tblAreaCoating	Area_Nonresidential_Exterior	5657	7749
tblAreaCoating	Area_Nonresidential_Interior	16971	23246
tblAreaCoating	Area_Parking	26160	22584
tblAreaCoating	Area_Residential_Exterior	445554	427345
tblAreaCoating	Area_Residential_Interior	1336662	1282036
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15





Wiley Canyon - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	55.00	114.00
tblConstructionPhase	NumDays	740.00	394.00
tblConstructionPhase	NumDays	50.00	14.00
tblConstructionPhase	NumDays	75.00	193.00
tblConstructionPhase	NumDays	75.00	85.00
tblConstructionPhase	NumDays	55.00	38.00
tblConstructionPhase	NumDays	30.00	14.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	322.15	0.00
tblFireplaces	NumberGas	184.45	0.00
tblFireplaces	NumberNoFireplace	37.90	0.00

Wiley Canyon - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblFireplaces	NumberNoFireplace	21.70	0.00
tblFireplaces	NumberWood	18.95	0.00
tblFireplaces	NumberWood	10.85	0.00
tblGrading	AcresOfGrading	1,447.50	253.31
tblGrading	AcresOfGrading	42.50	37.19
tblLandUse	LandUseSquareFeet	8,910.00	8,914.00
tblLandUse	LandUseSquareFeet	379,000.00	382,972.00
tblLandUse	LandUseSquareFeet	217,000.00	277,108.00
tblLandUse	LotAcreage	9.97	8.79
tblLandUse	LotAcreage	43.40	6.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	174.34	172.50
tblSolidWaste	SolidWasteGenerationRate	8.29	10.13
tblSolidWaste	SolidWasteGenerationRate	13.68	14.48
tblSolidWaste	SolidWasteGenerationRate	99.82	99.36
tblTripsAndVMT	HaulingTripNumber	168.00	0.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblTripsAndVMT	VendorTripNumber	244.00	0.00
tblTripsAndVMT	WorkerTripNumber	38.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	0.00
tblTripsAndVMT	WorkerTripNumber	43.00	0.00
tblTripsAndVMT	WorkerTripNumber	45.00	0.00
tblTripsAndVMT	WorkerTripNumber	30.00	0.00
tblTripsAndVMT	WorkerTripNumber	891.00	0.00
tblTripsAndVMT	WorkerTripNumber	178.00	0.00
tblTripsAndVMT	WorkerTripNumber	28.00	0.00
tblWater	IndoorWaterUseRate	24,693,375.71	24,432,759.61
tblWater	IndoorWaterUseRate	1,583,607.69	1,935,520.52
tblWater	IndoorWaterUseRate	141,943.55	150,223.59
tblWater	IndoorWaterUseRate	14,138,423.56	14,073,269.53
tblWater	OutdoorWaterUseRate	15,567,562.95	15,403,261.49
tblWater	OutdoorWaterUseRate	970,598.26	1,186,286.77
tblWater	OutdoorWaterUseRate	86,997.66	92,072.52
tblWater	OutdoorWaterUseRate	8,913,353.98	8,872,278.62
tblWoodstoves	NumberCatalytic	18.95	0.00
tblWoodstoves	NumberCatalytic	10.85	0.00
tblWoodstoves	NumberNoncatalytic	18.95	0.00
tblWoodstoves	NumberNoncatalytic	10.85	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
2023	1.0547	10.4138	8.9010	0.0205	0.7411	0.4380	1.1791	0.3375	0.4072	0.7447	0.0000	1,788.954 1	1,788.954 1	0.5217	0.0000	1,801.996 7
2024	0.4139	3.3240	3.9777	6.8500e-003	0.2757	0.1508	0.4265	0.1428	0.1450	0.2878	0.0000	581.9512	581.9512	0.1000	0.0000	584.4510
2025	2.5293	3.5250	4.6493	7.8600e-003	0.0000	0.1473	0.1473	0.0000	0.1413	0.1413	0.0000	666.8999	666.8999	0.1198	0.0000	669.8955
<b>Maximum</b>	<b>2.5293</b>	<b>10.4138</b>	<b>8.9010</b>	<b>0.0205</b>	<b>0.7411</b>	<b>0.4380</b>	<b>1.1791</b>	<b>0.3375</b>	<b>0.4072</b>	<b>0.7447</b>	<b>0.0000</b>	<b>1,788.954 1</b>	<b>1,788.954 1</b>	<b>0.5217</b>	<b>0.0000</b>	<b>1,801.996 7</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2649	1.2779	10.6776	0.0205	0.2890	0.0370	0.3260	0.1316	0.0370	0.1686	0.0000	1,788.952 0	1,788.952 0	0.5217	0.0000	1,801.994 5
2024	0.1576	0.8754	4.2696	6.8500e-003	0.1075	0.0273	0.1348	0.0557	0.0273	0.0830	0.0000	581.9506	581.9506	0.1000	0.0000	584.4503
2025	2.2690	0.9826	5.0027	7.8600e-003	0.0000	0.0296	0.0296	0.0000	0.0296	0.0296	0.0000	666.8991	666.8991	0.1198	0.0000	669.8947
<b>Maximum</b>	<b>2.2690</b>	<b>1.2779</b>	<b>10.6776</b>	<b>0.0205</b>	<b>0.2890</b>	<b>0.0370</b>	<b>0.3260</b>	<b>0.1316</b>	<b>0.0370</b>	<b>0.1686</b>	<b>0.0000</b>	<b>1,788.952 0</b>	<b>1,788.952 0</b>	<b>0.5217</b>	<b>0.0000</b>	<b>1,801.994 5</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	32.68	81.83	-13.82	0.00	61.00	87.24	72.02	61.00	86.46	76.04	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2023	4-1-2023	2.1705	0.2979
2	4-2-2023	7-1-2023	3.0650	0.3624
3	7-2-2023	10-1-2023	4.0961	0.5522
4	10-2-2023	1-1-2024	2.1817	0.3355
5	1-2-2024	4-1-2024	0.9489	0.1540
6	4-2-2024	7-1-2024	0.9220	0.2583
7	7-2-2024	10-1-2024	0.9255	0.3091
8	10-2-2024	1-1-2025	0.9249	0.3090
9	1-2-2025	4-1-2025	0.8505	0.2953
10	4-2-2025	7-1-2025	0.8599	0.2986
11	7-2-2025	9-30-2025	2.3185	1.2754
		Highest	4.0961	1.2754

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.8537	0.0709	6.1565	3.3000e-004		0.0341	0.0341		0.0341	0.0341	0.0000	10.0647	10.0647	9.7000e-003	0.0000	10.3072
Energy	0.0460	0.3935	0.1702	2.5100e-003		0.0318	0.0318		0.0318	0.0318	0.0000	1,151.1157	1,151.1157	0.0675	0.0155	1,157.4109
Mobile	1.3979	1.6014	14.5068	0.0317	3.3540	0.0232	3.3772	0.8948	0.0215	0.9164	0.0000	2,930.7731	2,930.7731	0.2017	0.1275	2,973.8032
Waste						0.0000	0.0000		0.0000	0.0000	62.8379	0.0000	62.8379	3.7136	0.0000	155.6782
Water						0.0000	0.0000		0.0000	0.0000	12.9167	179.7286	192.6454	1.3418	0.0332	236.0744
<b>Total</b>	<b>4.2976</b>	<b>2.0658</b>	<b>20.8334</b>	<b>0.0345</b>	<b>3.3540</b>	<b>0.0891</b>	<b>3.4431</b>	<b>0.8948</b>	<b>0.0874</b>	<b>0.9822</b>	<b>75.7546</b>	<b>4,271.6821</b>	<b>4,347.4367</b>	<b>5.3343</b>	<b>0.1761</b>	<b>4,533.2737</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.8537	0.0709	6.1565	3.3000e-004		0.0341	0.0341		0.0341	0.0341	0.0000	10.0647	10.0647	9.7000e-003	0.0000	10.3072
Energy	0.0460	0.3935	0.1702	2.5100e-003		0.0318	0.0318		0.0318	0.0318	0.0000	1,151.1157	1,151.1157	0.0675	0.0155	1,157.4109
Mobile	1.3979	1.6014	14.5068	0.0317	3.3540	0.0232	3.3772	0.8948	0.0215	0.9164	0.0000	2,930.7731	2,930.7731	0.2017	0.1275	2,973.8032
Waste						0.0000	0.0000		0.0000	0.0000	62.8379	0.0000	62.8379	3.7136	0.0000	155.6782
Water						0.0000	0.0000		0.0000	0.0000	12.9167	179.7286	192.6454	1.3418	0.0332	236.0744
<b>Total</b>	<b>4.2976</b>	<b>2.0658</b>	<b>20.8334</b>	<b>0.0345</b>	<b>3.3540</b>	<b>0.0891</b>	<b>3.4431</b>	<b>0.8948</b>	<b>0.0874</b>	<b>0.9822</b>	<b>75.7546</b>	<b>4,271.6821</b>	<b>4,347.4367</b>	<b>5.3343</b>	<b>0.1761</b>	<b>4,533.2737</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/19/2023	5	14	
2	Site Preparation	Site Preparation	1/13/2023	2/1/2023	5	14	
3	Grading	Grading	2/4/2023	11/1/2023	5	193	



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4	Drainage/Utilities/Sub-grade	Trenching	6/16/2023	1/2/2024	5	143
5	Foundations/Concrete Pour	Grading	1/2/2024	4/29/2024	5	85
6	Building Construction	Building Construction	4/30/2024	11/1/2025	5	394
7	Architectural Coating	Architectural Coating	7/26/2025	12/31/2025	5	114
8	Paving	Paving	8/23/2025	10/15/2025	5	38

**Acres of Grading (Site Preparation Phase): 14**

**Acres of Grading (Grading Phase): 253.31**

**Acres of Paving: 8.72**

**Residential Indoor: 1,282,036; Residential Outdoor: 427,345; Non-Residential Indoor: 23,246; Non-Residential Outdoor: 7,749; Striped Parking Area: 22,584 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	8.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Dumpers/Tenders	1	8.00	16	0.38
Demolition	Excavators	2	8.00	158	0.38
Demolition	Forklifts	1	8.00	89	0.20
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Demolition	Rubber Tired Loaders	2	8.00	203	0.36
Demolition	Skid Steer Loaders	2	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Welders	1	8.00	46	0.45
Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Forklifts	1	8.00	89	0.20
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Rollers	1	8.00	80	0.38

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Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Sweepers/Scrubbers	1	8.00	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Dumpers/Tenders	1	8.00	16	0.38
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Pumps	1	8.00	84	0.74
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	6	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Drainage/Utilities/Sub-grade	Air Compressors	2	8.00	78	0.48
Drainage/Utilities/Sub-grade	Bore/Drill Rigs	1	8.00	221	0.50
Drainage/Utilities/Sub-grade	Excavators	2	8.00	158	0.38
Drainage/Utilities/Sub-grade	Forklifts	1	8.00	89	0.20
Drainage/Utilities/Sub-grade	Off-Highway Trucks	1	8.00	402	0.38
Drainage/Utilities/Sub-grade	Plate Compactors	2	8.00	8	0.43
Drainage/Utilities/Sub-grade	Pumps	2	8.00	84	0.74
Drainage/Utilities/Sub-grade	Rough Terrain Forklifts	1	8.00	100	0.40
Drainage/Utilities/Sub-grade	Rubber Tired Loaders	2	8.00	203	0.36
Drainage/Utilities/Sub-grade	Skid Steer Loaders	1	8.00	65	0.37
Drainage/Utilities/Sub-grade	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Drainage/Utilities/Sub-grade	Trenchers	1	8.00	78	0.50
Foundations/Concrete Pour	Air Compressors	2	8.00	78	0.48
Foundations/Concrete Pour	Concrete/Industrial Saws	1	8.00	81	0.73

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Foundations/Concrete Pour	Cranes	1	8.00	231	0.29
Foundations/Concrete Pour	Excavators	1	8.00	158	0.38
Foundations/Concrete Pour	Forklifts	1	8.00	89	0.20
Foundations/Concrete Pour	Plate Compactors	1	8.00	8	0.43
Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Foundations/Concrete Pour	Rubber Tired Dozers	1	8.00	247	0.40
Foundations/Concrete Pour	Sweepers/Scrubbers	1	8.00	64	0.46
Foundations/Concrete Pour	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Air Compressors	3	8.00	78	0.48
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Dumpers/Tenders	1	8.00	16	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	4	8.00	46	0.45
Architectural Coating	Air Compressors	2	8.00	78	0.48
Architectural Coating	Cranes	1	8.00	231	0.29
Architectural Coating	Forklifts	3	8.00	89	0.20
Architectural Coating	Rough Terrain Forklifts	1	8.00	100	0.40
Architectural Coating	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Air Compressors	1	8.00	78	0.48
Paving	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Sweepers/Scrubbers	1	8.00	64	0.46
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	15	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	9	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	17	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage/Utilities/Sub-grade	18	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Foundations/Concrete Pour	12	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	16	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	11	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads















































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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3979	1.6014	14.5068	0.0317	3.3540	0.0232	3.3772	0.8948	0.0215	0.9164	0.0000	2,930.773 1	2,930.773 1	0.2017	0.1275	2,973.803 2
Unmitigated	1.3979	1.6014	14.5068	0.0317	3.3540	0.0232	3.3772	0.8948	0.0215	0.9164	0.0000	2,930.773 1	2,930.773 1	0.2017	0.1275	2,973.803 2

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,061.76	1,860.89	1550.11	6,697,520	6,697,520
City Park	11.70	29.40	32.85	49,638	49,638
Enclosed Parking Structure	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	86.78	19.69	6.24	211,625	211,625
Health Club	79.03	50.09	64.15	155,641	155,641
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	59.66	18.84	28.15	120,132	120,132
Retirement Community	520.80	440.51	423.15	1,692,789	1,692,789
<b>Total</b>	<b>2,819.73</b>	<b>2,419.42</b>	<b>2,104.65</b>	<b>8,927,345</b>	<b>8,927,345</b>

4.3 Trip Type Information

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	Miles			Trip %			Trip Purpose %		
	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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Retirement Community	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
City Park	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Enclosed Parking Structure	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
General Office Building	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Health Club	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Parking Lot	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Recreational Swimming Pool	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Retirement Community	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Wiley Canyon - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive 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	695.8457	695.8457	0.0587	7.1200e-003	699.4355
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	695.8457	695.8457	0.0587	7.1200e-003	699.4355
NaturalGas Mitigated	0.0460	0.3935	0.1702	2.5100e-003		0.0318	0.0318		0.0318	0.0318	0.0000	455.2699	455.2699	8.7300e-003	8.3500e-003	457.9754
NaturalGas Unmitigated	0.0460	0.3935	0.1702	2.5100e-003		0.0318	0.0318		0.0318	0.0318	0.0000	455.2699	455.2699	8.7300e-003	8.3500e-003	457.9754

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.95224e+006	0.0267	0.2282	0.0971	1.4600e-003		0.0185	0.0185		0.0185	0.0185	0.0000	264.2703	264.2703	5.0700e-003	4.8400e-003	265.8407
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	91903.3	5.0000e-004	4.5100e-003	3.7800e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.9043	4.9043	9.0000e-005	9.0000e-005	4.9335
Health Club	43104	2.3000e-004	2.1100e-003	1.7700e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3002	2.3002	4.0000e-005	4.0000e-005	2.3139
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	3.44419e+006	0.0186	0.1587	0.0675	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.7952	183.7952	3.5200e-003	3.3700e-003	184.8874
<b>Total</b>		<b>0.0460</b>	<b>0.3935</b>	<b>0.1702</b>	<b>2.5100e-003</b>		<b>0.0318</b>	<b>0.0318</b>		<b>0.0318</b>	<b>0.0318</b>	<b>0.0000</b>	<b>455.2699</b>	<b>455.2699</b>	<b>8.7200e-003</b>	<b>8.3400e-003</b>	<b>457.9754</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	tons/yr										MT/yr					
Apartments Mid Rise	4.95224e+006	0.0267	0.2282	0.0971	1.4600e-003		0.0185	0.0185		0.0185	0.0185	0.0000	264.2703	264.2703	5.0700e-003	4.8400e-003	265.8407
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	91903.3	5.0000e-004	4.5100e-003	3.7800e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.9043	4.9043	9.0000e-005	9.0000e-005	4.9335
Health Club	43104	2.3000e-004	2.1100e-003	1.7700e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3002	2.3002	4.0000e-005	4.0000e-005	2.3139
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	3.44419e+006	0.0186	0.1587	0.0675	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.7952	183.7952	3.5200e-003	3.3700e-003	184.8874
<b>Total</b>		<b>0.0460</b>	<b>0.3935</b>	<b>0.1702</b>	<b>2.5100e-003</b>		<b>0.0318</b>	<b>0.0318</b>		<b>0.0318</b>	<b>0.0318</b>	<b>0.0000</b>	<b>455.2699</b>	<b>455.2699</b>	<b>8.7200e-003</b>	<b>8.3400e-003</b>	<b>457.9754</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.4589e+006	258.7301	0.0218	2.6500e-003	260.0648
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	1.2642e+006	224.2002	0.0189	2.2900e-003	225.3569
Enclosed Parking Structure	100800	17.8764	1.5100e-003	1.8000e-004	17.9687
General Office Building	111425	19.7607	1.6700e-003	2.0000e-004	19.8627
Health Club	26064	4.6223	3.9000e-004	5.0000e-005	4.6462
Parking Lot	20020	3.5505	3.0000e-004	4.0000e-005	3.5688
Parking Lot	24640	4.3698	3.7000e-004	4.0000e-005	4.3923
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	917619	162.7357	0.0137	1.6600e-003	163.5752
<b>Total</b>		<b>695.8457</b>	<b>0.0587</b>	<b>7.1100e-003</b>	<b>699.4355</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Mitigated**

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Apartments Mid Rise	1.4589e+006	258.7301	0.0218	2.6500e-003	260.0648
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	1.2642e+006	224.2002	0.0189	2.2900e-003	225.3569
Enclosed Parking Structure	100800	17.8764	1.5100e-003	1.8000e-004	17.9687
General Office Building	111425	19.7607	1.6700e-003	2.0000e-004	19.8627
Health Club	26064	4.6223	3.9000e-004	5.0000e-005	4.6462
Parking Lot	20020	3.5505	3.0000e-004	4.0000e-005	3.5688
Parking Lot	24640	4.3698	3.7000e-004	4.0000e-005	4.3923
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	917619	162.7357	0.0137	1.6600e-003	163.5752
<b>Total</b>		<b>695.8457</b>	<b>0.0587</b>	<b>7.1100e-003</b>	<b>699.4355</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.8537	0.0709	6.1565	3.3000e-004		0.0341	0.0341		0.0341	0.0341	0.0000	10.0647	10.0647	9.7000e-003	0.0000	10.3072
Unmitigated	2.8537	0.0709	6.1565	3.3000e-004		0.0341	0.0341		0.0341	0.0341	0.0000	10.0647	10.0647	9.7000e-003	0.0000	10.3072

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4573					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	0.1859	0.0709	6.1565	3.3000e-004		0.0341	0.0341		0.0341	0.0341	0.0000	10.0647	10.0647	9.7000e-003	0.0000	10.3072
<b>Total</b>	<b>2.8537</b>	<b>0.0709</b>	<b>6.1565</b>	<b>3.3000e-004</b>		<b>0.0341</b>	<b>0.0341</b>		<b>0.0341</b>	<b>0.0341</b>	<b>0.0000</b>	<b>10.0647</b>	<b>10.0647</b>	<b>9.7000e-003</b>	<b>0.0000</b>	<b>10.3072</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4573					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	0.1859	0.0709	6.1565	3.3000e-004		0.0341	0.0341		0.0341	0.0341	0.0000	10.0647	10.0647	9.7000e-003	0.0000	10.3072
<b>Total</b>	<b>2.8537</b>	<b>0.0709</b>	<b>6.1565</b>	<b>3.3000e-004</b>		<b>0.0341</b>	<b>0.0341</b>		<b>0.0341</b>	<b>0.0341</b>	<b>0.0000</b>	<b>10.0647</b>	<b>10.0647</b>	<b>9.7000e-003</b>	<b>0.0000</b>	<b>10.3072</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	192.6454	1.3418	0.0332	236.0744
Unmitigated	192.6454	1.3418	0.0332	236.0744

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	24.4328 / 15.4033	94.5211	0.8035	0.0197	120.4743
City Park	0 / 17.8722	35.2138	2.9700e-003	3.6000e-004	35.3955
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.93552 / 1.18629	7.4209	0.0636	1.5600e-003	9.4766
Health Club	0.150224 / 0.0920725	0.5760	4.9400e-003	1.2000e-004	0.7355
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.122426 / 0.0750355	0.4694	4.0300e-003	1.0000e-004	0.5994
Retirement Community	14.0733 / 8.87228	54.4442	0.4628	0.0113	69.3932
<b>Total</b>		<b>192.6454</b>	<b>1.3419</b>	<b>0.0332</b>	<b>236.0744</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	24.4328 / 15.4033	94.5211	0.8035	0.0197	120.4743
City Park	0 / 17.8722	35.2138	2.9700e-003	3.6000e-004	35.3955
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.93552 / 1.18629	7.4209	0.0636	1.5600e-003	9.4766
Health Club	0.150224 / 0.0920725	0.5760	4.9400e-003	1.2000e-004	0.7355
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.122426 / 0.0750355	0.4694	4.0300e-003	1.0000e-004	0.5994
Retirement Community	14.0733 / 8.87228	54.4442	0.4628	0.0113	69.3932
<b>Total</b>		<b>192.6454</b>	<b>1.3419</b>	<b>0.0332</b>	<b>236.0744</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	62.8379	3.7136	0.0000	155.6782
Unmitigated	62.8379	3.7136	0.0000	155.6782

Wiley Canyon - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	172.5	35.0159	2.0694	0.0000	86.7505
City Park	1.29	0.2619	0.0155	0.0000	0.6487
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	10.13	2.0563	0.1215	0.0000	5.0944
Health Club	14.48	2.9393	0.1737	0.0000	7.2820
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.8	2.3953	0.1416	0.0000	5.9342
Retirement Community	99.36	20.1692	1.1920	0.0000	49.9683
<b>Total</b>		<b>62.8379</b>	<b>3.7136</b>	<b>0.0000</b>	<b>155.6782</b>

Wiley Canyon - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	172.5	35.0159	2.0694	0.0000	86.7505
City Park	1.29	0.2619	0.0155	0.0000	0.6487
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	10.13	2.0563	0.1215	0.0000	5.0944
Health Club	14.48	2.9393	0.1737	0.0000	7.2820
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.8	2.3953	0.1416	0.0000	5.9342
Retirement Community	99.36	20.1692	1.1920	0.0000	49.9683
<b>Total</b>		<b>62.8379</b>	<b>3.7136</b>	<b>0.0000</b>	<b>155.6782</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Wiley Canyon**

**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.91	1000sqft	0.20	8,914.00	0
Enclosed Parking Structure	602.00	Space	5.42	240,800.00	0
Parking Lot	143.00	Space	1.29	57,200.00	0
City Park	15.00	Acre	15.00	653,400.00	0
Health Club	2.40	1000sqft	0.06	2,400.00	0
Recreational Swimming Pool	2.07	1000sqft	0.05	2,070.00	0
Apartments Mid Rise	379.00	Dwelling Unit	8.79	382,972.00	1084
Retirement Community	217.00	Dwelling Unit	6.36	277,108.00	621
Enclosed Parking Structure	48.00	Space	0.43	19,200.00	0
Parking Lot	176.00	Space	1.58	70,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - See SCE EF Forecast

Land Use - See Construction Assumptions

Construction Phase - See Construction Assumptions

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Equipment
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Constructions Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Trips and VMT - Trips and VMT calculated outside of CalEEMod
- Demolition -
- Grading -
- Woodstoves - No Wood Stoves or fire places
- Energy Use -
- Construction Off-road Equipment Mitigation - Mitigation
- Water Mitigation -
- Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,657.00	7,749.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,971.00	23,246.00
tblArchitecturalCoating	ConstArea_Parking	26,160.00	22,584.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	445,554.00	427,345.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,336,662.00	1,282,036.00
tblAreaCoating	Area_Nonresidential_Exterior	5657	7749
tblAreaCoating	Area_Nonresidential_Interior	16971	23246
tblAreaCoating	Area_Parking	26160	22584
tblAreaCoating	Area_Residential_Exterior	445554	427345
tblAreaCoating	Area_Residential_Interior	1336662	1282036
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15



Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	55.00	114.00
tblConstructionPhase	NumDays	740.00	394.00
tblConstructionPhase	NumDays	50.00	14.00
tblConstructionPhase	NumDays	75.00	193.00
tblConstructionPhase	NumDays	75.00	85.00
tblConstructionPhase	NumDays	55.00	38.00
tblConstructionPhase	NumDays	30.00	14.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	322.15	0.00
tblFireplaces	NumberGas	184.45	0.00
tblFireplaces	NumberNoFireplace	37.90	0.00

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblFireplaces	NumberNoFireplace	21.70	0.00
tblFireplaces	NumberWood	18.95	0.00
tblFireplaces	NumberWood	10.85	0.00
tblGrading	AcresOfGrading	1,447.50	253.31
tblGrading	AcresOfGrading	42.50	37.19
tblLandUse	LandUseSquareFeet	8,910.00	8,914.00
tblLandUse	LandUseSquareFeet	379,000.00	382,972.00
tblLandUse	LandUseSquareFeet	217,000.00	277,108.00
tblLandUse	LotAcreage	9.97	8.79
tblLandUse	LotAcreage	43.40	6.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	174.34	172.50
tblSolidWaste	SolidWasteGenerationRate	8.29	10.13
tblSolidWaste	SolidWasteGenerationRate	13.68	14.48
tblSolidWaste	SolidWasteGenerationRate	99.82	99.36
tblTripsAndVMT	HaulingTripNumber	168.00	0.00

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblTripsAndVMT	VendorTripNumber	244.00	0.00
tblTripsAndVMT	WorkerTripNumber	38.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	0.00
tblTripsAndVMT	WorkerTripNumber	43.00	0.00
tblTripsAndVMT	WorkerTripNumber	45.00	0.00
tblTripsAndVMT	WorkerTripNumber	30.00	0.00
tblTripsAndVMT	WorkerTripNumber	891.00	0.00
tblTripsAndVMT	WorkerTripNumber	178.00	0.00
tblTripsAndVMT	WorkerTripNumber	28.00	0.00
tblWater	IndoorWaterUseRate	24,693,375.71	24,432,759.61
tblWater	IndoorWaterUseRate	1,583,607.69	1,935,520.52
tblWater	IndoorWaterUseRate	141,943.55	150,223.59
tblWater	IndoorWaterUseRate	14,138,423.56	14,073,269.53
tblWater	OutdoorWaterUseRate	15,567,562.95	15,403,261.49
tblWater	OutdoorWaterUseRate	970,598.26	1,186,286.77
tblWater	OutdoorWaterUseRate	86,997.66	92,072.52
tblWater	OutdoorWaterUseRate	8,913,353.98	8,872,278.62
tblWoodstoves	NumberCatalytic	18.95	0.00
tblWoodstoves	NumberCatalytic	10.85	0.00
tblWoodstoves	NumberNoncatalytic	18.95	0.00
tblWoodstoves	NumberNoncatalytic	10.85	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

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Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
2023	11.5292	113.1354	98.7523	0.2260	7.4140	4.7857	12.1997	3.4605	4.4541	7.9146	0.0000	21,768.81 24	21,768.81 24	6.2878	0.0000	21,926.00 65
2024	6.5392	56.6338	67.4806	0.1353	6.4861	2.5812	9.0673	3.3603	2.4400	5.8004	0.0000	12,972.35 77	12,972.35 77	3.0861	0.0000	13,049.50 91
2025	43.2831	52.3682	69.0426	0.1167	0.0000	2.2550	2.2550	0.0000	2.1375	2.1375	0.0000	11,052.20 60	11,052.20 60	2.4245	0.0000	11,112.81 87
<b>Maximum</b>	<b>43.2831</b>	<b>113.1354</b>	<b>98.7523</b>	<b>0.2260</b>	<b>7.4140</b>	<b>4.7857</b>	<b>12.1997</b>	<b>3.4605</b>	<b>4.4541</b>	<b>7.9146</b>	<b>0.0000</b>	<b>21,768.81 24</b>	<b>21,768.81 24</b>	<b>6.2878</b>	<b>0.0000</b>	<b>21,926.00 65</b>

**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					
2023	2.9034	13.9017	119.0079	0.2260	2.8915	0.4046	3.2960	1.3496	0.4046	1.7542	0.0000	21,768.81 24	21,768.81 24	6.2878	0.0000	21,926.00 65
2024	1.7244	9.7993	80.8423	0.1353	2.5296	0.2672	2.7652	1.3105	0.2672	1.5462	0.0000	12,972.35 77	12,972.35 77	3.0861	0.0000	13,049.50 91
2025	39.3244	12.3830	76.1746	0.1167	0.0000	0.3428	0.3428	0.0000	0.3428	0.3428	0.0000	11,052.20 60	11,052.20 60	2.4245	0.0000	11,112.81 87
<b>Maximum</b>	<b>39.3244</b>	<b>13.9017</b>	<b>119.0079</b>	<b>0.2260</b>	<b>2.8915</b>	<b>0.4046</b>	<b>3.2960</b>	<b>1.3496</b>	<b>0.4046</b>	<b>1.7542</b>	<b>0.0000</b>	<b>21,768.81 24</b>	<b>21,768.81 24</b>	<b>6.2878</b>	<b>0.0000</b>	<b>21,926.00 65</b>





Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	16.1052	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728	0.0000	88.7555	88.7555	0.0855	0.0000	90.8935
Energy	0.2521	2.1562	0.9326	0.0138		0.1742	0.1742		0.1742	0.1742		2,749.8586	2,749.8586	0.0527	0.0504	2,766.1997
Mobile	8.4799	8.5653	86.0893	0.1917	20.0291	0.1360	20.1651	5.3352	0.1263	5.4614		19,545.1396	19,545.1396	1.2734	0.7836	19,810.4815
<b>Total</b>	<b>24.8372</b>	<b>11.2888</b>	<b>136.2736</b>	<b>0.2081</b>	<b>20.0291</b>	<b>0.5829</b>	<b>20.6120</b>	<b>5.3352</b>	<b>0.5732</b>	<b>5.9084</b>	<b>0.0000</b>	<b>22,383.7537</b>	<b>22,383.7537</b>	<b>1.4116</b>	<b>0.8340</b>	<b>22,667.5746</b>

**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	16.1052	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728	0.0000	88.7555	88.7555	0.0855	0.0000	90.8935
Energy	0.2521	2.1562	0.9326	0.0138		0.1742	0.1742		0.1742	0.1742		2,749.8586	2,749.8586	0.0527	0.0504	2,766.1997
Mobile	8.4799	8.5653	86.0893	0.1917	20.0291	0.1360	20.1651	5.3352	0.1263	5.4614		19,545.1396	19,545.1396	1.2734	0.7836	19,810.4815
<b>Total</b>	<b>24.8372</b>	<b>11.2888</b>	<b>136.2736</b>	<b>0.2081</b>	<b>20.0291</b>	<b>0.5829</b>	<b>20.6120</b>	<b>5.3352</b>	<b>0.5732</b>	<b>5.9084</b>	<b>0.0000</b>	<b>22,383.7537</b>	<b>22,383.7537</b>	<b>1.4116</b>	<b>0.8340</b>	<b>22,667.5746</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/19/2023	5	14	
2	Site Preparation	Site Preparation	1/13/2023	2/1/2023	5	14	
3	Grading	Grading	2/4/2023	11/1/2023	5	193	
4	Drainage/Utilities/Sub-grade	Trenching	6/16/2023	1/2/2024	5	143	
5	Foundations/Concrete Pour	Grading	1/2/2024	4/29/2024	5	85	
6	Building Construction	Building Construction	4/30/2024	11/1/2025	5	394	
7	Architectural Coating	Architectural Coating	7/26/2025	12/31/2025	5	114	
8	Paving	Paving	8/23/2025	10/15/2025	5	38	

**Acres of Grading (Site Preparation Phase): 14**

**Acres of Grading (Grading Phase): 253.31**

**Acres of Paving: 8.72**

**Residential Indoor: 1,282,036; Residential Outdoor: 427,345; Non-Residential Indoor: 23,246; Non-Residential Outdoor: 7,749; Striped Parking Area: 22,584 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	8.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Demolition	Dumpers/Tenders	1	8.00	16	0.38
Demolition	Excavators	2	8.00	158	0.38
Demolition	Forklifts	1	8.00	89	0.20
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Demolition	Rubber Tired Loaders	2	8.00	203	0.36
Demolition	Skid Steer Loaders	2	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Welders	1	8.00	46	0.45
Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Forklifts	1	8.00	89	0.20
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Rollers	1	8.00	80	0.38
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Sweepers/Scrubbers	1	8.00	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Dumpers/Tenders	1	8.00	16	0.38
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Pumps	1	8.00	84	0.74
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	6	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Drainage/Utilities/Sub-grade	Air Compressors	2	8.00	78	0.48
Drainage/Utilities/Sub-grade	Bore/Drill Rigs	1	8.00	221	0.50

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Drainage/Utilities/Sub-grade	Excavators	2	8.00	158	0.38
Drainage/Utilities/Sub-grade	Forklifts	1	8.00	89	0.20
Drainage/Utilities/Sub-grade	Off-Highway Trucks	1	8.00	402	0.38
Drainage/Utilities/Sub-grade	Plate Compactors	2	8.00	8	0.43
Drainage/Utilities/Sub-grade	Pumps	2	8.00	84	0.74
Drainage/Utilities/Sub-grade	Rough Terrain Forklifts	1	8.00	100	0.40
Drainage/Utilities/Sub-grade	Rubber Tired Loaders	2	8.00	203	0.36
Drainage/Utilities/Sub-grade	Skid Steer Loaders	1	8.00	65	0.37
Drainage/Utilities/Sub-grade	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Drainage/Utilities/Sub-grade	Trenchers	1	8.00	78	0.50
Foundations/Concrete Pour	Air Compressors	2	8.00	78	0.48
Foundations/Concrete Pour	Concrete/Industrial Saws	1	8.00	81	0.73
Foundations/Concrete Pour	Cranes	1	8.00	231	0.29
Foundations/Concrete Pour	Excavators	1	8.00	158	0.38
Foundations/Concrete Pour	Forklifts	1	8.00	89	0.20
Foundations/Concrete Pour	Plate Compactors	1	8.00	8	0.43
Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Foundations/Concrete Pour	Rubber Tired Dozers	1	8.00	247	0.40
Foundations/Concrete Pour	Sweepers/Scrubbers	1	8.00	64	0.46
Foundations/Concrete Pour	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Air Compressors	3	8.00	78	0.48
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Dumpers/Tenders	1	8.00	16	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	4	8.00	46	0.45
Architectural Coating	Air Compressors	2	8.00	78	0.48

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Architectural Coating	Cranes	1	8.00	231	0.29
Architectural Coating	Forklifts	3	8.00	89	0.20
Architectural Coating	Rough Terrain Forklifts	1	8.00	100	0.40
Architectural Coating	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Air Compressors	1	8.00	78	0.48
Paving	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Sweepers/Scrubbers	1	8.00	64	0.46
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	15	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	9	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	17	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage/Utilities/Sub-grade	18	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Foundations/Concrete Pour	12	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	16	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	11	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 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					
Fugitive Dust					2.6015	0.0000	2.6015	0.3939	0.0000	0.3939			0.0000			0.0000
Off-Road	3.3250	26.9257	33.5293	0.0685		1.1774	1.1774		1.1192	1.1192		6,544.256 2	6,544.256 2	1.6224		6,584.814 9
<b>Total</b>	<b>3.3250</b>	<b>26.9257</b>	<b>33.5293</b>	<b>0.0685</b>	<b>2.6015</b>	<b>1.1774</b>	<b>3.7789</b>	<b>0.3939</b>	<b>1.1192</b>	<b>1.5131</b>		<b>6,544.256 2</b>	<b>6,544.256 2</b>	<b>1.6224</b>		<b>6,584.814 9</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0146	0.0000	1.0146	0.1536	0.0000	0.1536			0.0000			0.0000
Off-Road	1.1403	7.2885	40.9762	0.0685		0.1740	0.1740		0.1740	0.1740	0.0000	6,544.256 2	6,544.256 2	1.6224		6,584.814 9
<b>Total</b>	<b>1.1403</b>	<b>7.2885</b>	<b>40.9762</b>	<b>0.0685</b>	<b>1.0146</b>	<b>0.1740</b>	<b>1.1886</b>	<b>0.1536</b>	<b>0.1740</b>	<b>0.3277</b>	<b>0.0000</b>	<b>6,544.256 2</b>	<b>6,544.256 2</b>	<b>1.6224</b>		<b>6,584.814 9</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 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					
Fugitive Dust					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	2.5496	23.7662	23.1249	0.0528		1.0327	1.0327		0.9604	0.9604		5,098.6217	5,098.6217	1.4865		5,135.7847
<b>Total</b>	<b>2.5496</b>	<b>23.7662</b>	<b>23.1249</b>	<b>0.0528</b>	<b>1.0605</b>	<b>1.0327</b>	<b>2.0932</b>	<b>0.1145</b>	<b>0.9604</b>	<b>1.0749</b>		<b>5,098.6217</b>	<b>5,098.6217</b>	<b>1.4865</b>		<b>5,135.7847</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4136	0.0000	0.4136	0.0447	0.0000	0.0447			0.0000			0.0000
Off-Road	0.6902	5.0851	28.4348	0.0528		0.0845	0.0845		0.0845	0.0845	0.0000	5,098.621 7	5,098.621 7	1.4865		5,135.784 7
<b>Total</b>	<b>0.6902</b>	<b>5.0851</b>	<b>28.4348</b>	<b>0.0528</b>	<b>0.4136</b>	<b>0.0845</b>	<b>0.4981</b>	<b>0.0447</b>	<b>0.0845</b>	<b>0.1291</b>	<b>0.0000</b>	<b>5,098.621 7</b>	<b>5,098.621 7</b>	<b>1.4865</b>		<b>5,135.784 7</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 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					
Fugitive Dust					7.4140	0.0000	7.4140	3.4605	0.0000	3.4605			0.0000			0.0000
Off-Road	7.7221	80.1101	59.3225	0.1417		3.2738	3.2738		3.0248	3.0248		13,683.95 77	13,683.95 77	4.2319		13,789.75 60
<b>Total</b>	<b>7.7221</b>	<b>80.1101</b>	<b>59.3225</b>	<b>0.1417</b>	<b>7.4140</b>	<b>3.2738</b>	<b>10.6878</b>	<b>3.4605</b>	<b>3.0248</b>	<b>6.4854</b>		<b>13,683.95 77</b>	<b>13,683.95 77</b>	<b>4.2319</b>		<b>13,789.75 60</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**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					2.8915	0.0000	2.8915	1.3496	0.0000	1.3496			0.0000			0.0000
Off-Road	1.8228	8.1223	69.2953	0.1417		0.2550	0.2550		0.2550	0.2550	0.0000	13,683.95 77	13,683.95 77	4.2319		13,789.75 60
<b>Total</b>	<b>1.8228</b>	<b>8.1223</b>	<b>69.2953</b>	<b>0.1417</b>	<b>2.8915</b>	<b>0.2550</b>	<b>3.1465</b>	<b>1.3496</b>	<b>0.2550</b>	<b>1.6046</b>	<b>0.0000</b>	<b>13,683.95 77</b>	<b>13,683.95 77</b>	<b>4.2319</b>		<b>13,789.75 60</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Drainage/Utilities/Sub-grade - 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	3.8070	33.0253	39.4298	0.0842		1.5120	1.5120		1.4292	1.4292		8,084.8547	8,084.8547	2.0558		8,136.2505
<b>Total</b>	<b>3.8070</b>	<b>33.0253</b>	<b>39.4298</b>	<b>0.0842</b>		<b>1.5120</b>	<b>1.5120</b>		<b>1.4292</b>	<b>1.4292</b>		<b>8,084.8547</b>	<b>8,084.8547</b>	<b>2.0558</b>		<b>8,136.2505</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Drainage/Utilities/Sub-grade - 2023**

**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	1.0806	5.7794	49.7126	0.0842		0.1495	0.1495		0.1495	0.1495	0.0000	8,084.8547	8,084.8547	2.0558		8,136.2505
<b>Total</b>	<b>1.0806</b>	<b>5.7794</b>	<b>49.7126</b>	<b>0.0842</b>		<b>0.1495</b>	<b>0.1495</b>		<b>0.1495</b>	<b>0.1495</b>	<b>0.0000</b>	<b>8,084.8547</b>	<b>8,084.8547</b>	<b>2.0558</b>		<b>8,136.2505</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Drainage/Utilities/Sub-grade - 2024**

**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	3.6368	30.7160	39.3745	0.0843		1.3632	1.3632		1.2875	1.2875		8,087.8566	8,087.8566	2.0520		8,139.1558
<b>Total</b>	<b>3.6368</b>	<b>30.7160</b>	<b>39.3745</b>	<b>0.0843</b>		<b>1.3632</b>	<b>1.3632</b>		<b>1.2875</b>	<b>1.2875</b>		<b>8,087.8566</b>	<b>8,087.8566</b>	<b>2.0520</b>		<b>8,139.1558</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Drainage/Utilities/Sub-grade - 2024**

**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	1.0806	5.7794	49.7126	0.0843		0.1495	0.1495		0.1495	0.1495	0.0000	8,087.8566	8,087.8566	2.0520		8,139.1558
<b>Total</b>	<b>1.0806</b>	<b>5.7794</b>	<b>49.7126</b>	<b>0.0843</b>		<b>0.1495</b>	<b>0.1495</b>		<b>0.1495</b>	<b>0.1495</b>	<b>0.0000</b>	<b>8,087.8566</b>	<b>8,087.8566</b>	<b>2.0520</b>		<b>8,139.1558</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Foundations/Concrete Pour - 2024**

**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					6.4861	0.0000	6.4861	3.3603	0.0000	3.3603			0.0000			0.0000
Off-Road	2.9024	25.9179	28.1061	0.0510		1.2180	1.2180		1.1525	1.1525		4,884.501 2	4,884.501 2	1.0341		4,910.353 2
<b>Total</b>	<b>2.9024</b>	<b>25.9179</b>	<b>28.1061</b>	<b>0.0510</b>	<b>6.4861</b>	<b>1.2180</b>	<b>7.7040</b>	<b>3.3603</b>	<b>1.1525</b>	<b>4.5129</b>		<b>4,884.501 2</b>	<b>4,884.501 2</b>	<b>1.0341</b>		<b>4,910.353 2</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Foundations/Concrete Pour - 2024**

**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					2.5296	0.0000	2.5296	1.3105	0.0000	1.3105			0.0000			0.0000
Off-Road	0.6438	4.0199	31.1297	0.0510		0.0861	0.0861		0.0861	0.0861	0.0000	4,884.501 2	4,884.501 2	1.0341		4,910.353 2
<b>Total</b>	<b>0.6438</b>	<b>4.0199</b>	<b>31.1297</b>	<b>0.0510</b>	<b>2.5296</b>	<b>0.0861</b>	<b>2.6157</b>	<b>1.3105</b>	<b>0.0861</b>	<b>1.3966</b>	<b>0.0000</b>	<b>4,884.501 2</b>	<b>4,884.501 2</b>	<b>1.0341</b>		<b>4,910.353 2</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Building Construction - 2024**

**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	3.2608	24.9069	31.1799	0.0523		1.1104	1.1104		1.0759	1.0759		4,838.7759	4,838.7759	0.7298		4,857.0197
<b>Total</b>	<b>3.2608</b>	<b>24.9069</b>	<b>31.1799</b>	<b>0.0523</b>		<b>1.1104</b>	<b>1.1104</b>		<b>1.0759</b>	<b>1.0759</b>		<b>4,838.7759</b>	<b>4,838.7759</b>	<b>0.7298</b>		<b>4,857.0197</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Building Construction - 2024**

**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	1.4674	7.9400	32.9185	0.0523		0.2672	0.2672		0.2672	0.2672	0.0000	4,838.775 9	4,838.775 9	0.7298		4,857.019 7
<b>Total</b>	<b>1.4674</b>	<b>7.9400</b>	<b>32.9185</b>	<b>0.0523</b>		<b>0.2672</b>	<b>0.2672</b>		<b>0.2672</b>	<b>0.2672</b>	<b>0.0000</b>	<b>4,838.775 9</b>	<b>4,838.775 9</b>	<b>0.7298</b>		<b>4,857.019 7</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Building Construction - 2025**

**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	3.0550	23.4040	31.0512	0.0523		0.9548	0.9548		0.9249	0.9249		4,839.374 1	4,839.374 1	0.7178		4,857.320 2
<b>Total</b>	<b>3.0550</b>	<b>23.4040</b>	<b>31.0512</b>	<b>0.0523</b>		<b>0.9548</b>	<b>0.9548</b>		<b>0.9249</b>	<b>0.9249</b>		<b>4,839.374 1</b>	<b>4,839.374 1</b>	<b>0.7178</b>		<b>4,857.320 2</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Building Construction - 2025**

**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	1.4032	7.7852	32.8702	0.0523		0.2409	0.2409		0.2409	0.2409	0.0000	4,839.374 <sub>1</sub>	4,839.374 <sub>1</sub>	0.7178		4,857.320 <sub>2</sub>
<b>Total</b>	<b>1.4032</b>	<b>7.7852</b>	<b>32.8702</b>	<b>0.0523</b>		<b>0.2409</b>	<b>0.2409</b>		<b>0.2409</b>	<b>0.2409</b>	<b>0.0000</b>	<b>4,839.374<sub>1</sub></b>	<b>4,839.374<sub>1</sub></b>	<b>0.7178</b>		<b>4,857.320<sub>2</sub></b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.8 Architectural Coating - 2025**

**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	36.9283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.2582	11.2977	14.4773	0.0249		0.4936	0.4936		0.4651	0.4651		2,389.220 2	2,389.220 2	0.5709		2,403.493 4
<b>Total</b>	<b>38.1865</b>	<b>11.2977</b>	<b>14.4773</b>	<b>0.0249</b>		<b>0.4936</b>	<b>0.4936</b>		<b>0.4651</b>	<b>0.4651</b>		<b>2,389.220 2</b>	<b>2,389.220 2</b>	<b>0.5709</b>		<b>2,403.493 4</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.8 Architectural Coating - 2025**

**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	36.9283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2870	1.2434	15.9228	0.0249		0.0383	0.0383		0.0383	0.0383	0.0000	2,389.220 2	2,389.220 2	0.5709		2,403.493 4
<b>Total</b>	<b>37.2153</b>	<b>1.2434</b>	<b>15.9228</b>	<b>0.0249</b>		<b>0.0383</b>	<b>0.0383</b>		<b>0.0383</b>	<b>0.0383</b>	<b>0.0000</b>	<b>2,389.220 2</b>	<b>2,389.220 2</b>	<b>0.5709</b>		<b>2,403.493 4</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.9 Paving - 2025**

**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	1.8437	17.6665	23.5141	0.0396		0.8065	0.8065		0.7475	0.7475		3,823.6117	3,823.6117	1.1357		3,852.0051
Paving	0.1979					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0416</b>	<b>17.6665</b>	<b>23.5141</b>	<b>0.0396</b>		<b>0.8065</b>	<b>0.8065</b>		<b>0.7475</b>	<b>0.7475</b>		<b>3,823.6117</b>	<b>3,823.6117</b>	<b>1.1357</b>		<b>3,852.0051</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.9 Paving - 2025**

**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	0.5081	3.3543	27.3816	0.0396		0.0636	0.0636		0.0636	0.0636	0.0000	3,823.6117	3,823.6117	1.1357		3,852.0051
Paving	0.1979					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7060</b>	<b>3.3543</b>	<b>27.3816</b>	<b>0.0396</b>		<b>0.0636</b>	<b>0.0636</b>		<b>0.0636</b>	<b>0.0636</b>	<b>0.0000</b>	<b>3,823.6117</b>	<b>3,823.6117</b>	<b>1.1357</b>		<b>3,852.0051</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.4799	8.5653	86.0893	0.1917	20.0291	0.1360	20.1651	5.3352	0.1263	5.4614		19,545.13 96	19,545.13 96	1.2734	0.7836	19,810.48 15
Unmitigated	8.4799	8.5653	86.0893	0.1917	20.0291	0.1360	20.1651	5.3352	0.1263	5.4614		19,545.13 96	19,545.13 96	1.2734	0.7836	19,810.48 15

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,061.76	1,860.89	1550.11	6,697,520	6,697,520
City Park	11.70	29.40	32.85	49,638	49,638
Enclosed Parking Structure	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	86.78	19.69	6.24	211,625	211,625
Health Club	79.03	50.09	64.15	155,641	155,641
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	59.66	18.84	28.15	120,132	120,132
Retirement Community	520.80	440.51	423.15	1,692,789	1,692,789
<b>Total</b>	<b>2,819.73</b>	<b>2,419.42</b>	<b>2,104.65</b>	<b>8,927,345</b>	<b>8,927,345</b>

**4.3 Trip Type Information**

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	Miles			Trip %			Trip Purpose %		
	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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Retirement Community	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
City Park	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Enclosed Parking Structure	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
General Office Building	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Health Club	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Parking Lot	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Recreational Swimming Pool	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Retirement Community	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2521	2.1562	0.9326	0.0138		0.1742	0.1742		0.1742	0.1742		2,749.8586	2,749.8586	0.0527	0.0504	2,766.1997
NaturalGas Unmitigated	0.2521	2.1562	0.9326	0.0138		0.1742	0.1742		0.1742	0.1742		2,749.8586	2,749.8586	0.0527	0.0504	2,766.1997

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
Apartments Mid Rise	13567.8	0.1463	1.2504	0.5321	7.9800e-003		0.1011	0.1011		0.1011	0.1011		1,596.2087	1,596.2087	0.0306	0.0293	1,605.6942
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	251.79	2.7200e-003	0.0247	0.0207	1.5000e-004		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003		29.6224	29.6224	5.7000e-004	5.4000e-004	29.7984
Health Club	118.093	1.2700e-003	0.0116	9.7300e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		13.8933	13.8933	2.7000e-004	2.5000e-004	13.9759
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	9436.14	0.1018	0.8696	0.3700	5.5500e-003		0.0703	0.0703		0.0703	0.0703		1,110.1342	1,110.1342	0.0213	0.0204	1,116.7312
<b>Total</b>		<b>0.2521</b>	<b>2.1562</b>	<b>0.9326</b>	<b>0.0138</b>		<b>0.1742</b>	<b>0.1742</b>		<b>0.1742</b>	<b>0.1742</b>		<b>2,749.8586</b>	<b>2,749.8586</b>	<b>0.0527</b>	<b>0.0504</b>	<b>2,766.1997</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
Apartments Mid Rise	13.5678	0.1463	1.2504	0.5321	7.9800e-003		0.1011	0.1011		0.1011	0.1011		1,596.2087	1,596.2087	0.0306	0.0293	1,605.6942
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.25179	2.7200e-003	0.0247	0.0207	1.5000e-004		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003		29.6224	29.6224	5.7000e-004	5.4000e-004	29.7984
Health Club	0.118093	1.2700e-003	0.0116	9.7300e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		13.8933	13.8933	2.7000e-004	2.5000e-004	13.9759
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	9.43614	0.1018	0.8696	0.3700	5.5500e-003		0.0703	0.0703		0.0703	0.0703		1,110.1342	1,110.1342	0.0213	0.0204	1,116.7312
<b>Total</b>		<b>0.2521</b>	<b>2.1562</b>	<b>0.9326</b>	<b>0.0138</b>		<b>0.1742</b>	<b>0.1742</b>		<b>0.1742</b>	<b>0.1742</b>		<b>2,749.8586</b>	<b>2,749.8586</b>	<b>0.0527</b>	<b>0.0504</b>	<b>2,766.1997</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	16.1052	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728	0.0000	88.7555	88.7555	0.0855	0.0000	90.8935
Unmitigated	16.1052	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728	0.0000	88.7555	88.7555	0.0855	0.0000	90.8935

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.4646					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	1.4872	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728		88.7555	88.7555	0.0855		90.8935
<b>Total</b>	<b>16.1052</b>	<b>0.5672</b>	<b>49.2518</b>	<b>2.6000e-003</b>		<b>0.2728</b>	<b>0.2728</b>		<b>0.2728</b>	<b>0.2728</b>	<b>0.0000</b>	<b>88.7555</b>	<b>88.7555</b>	<b>0.0855</b>	<b>0.0000</b>	<b>90.8935</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.4646					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	1.4872	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728		88.7555	88.7555	0.0855		90.8935
<b>Total</b>	<b>16.1052</b>	<b>0.5672</b>	<b>49.2518</b>	<b>2.6000e-003</b>		<b>0.2728</b>	<b>0.2728</b>		<b>0.2728</b>	<b>0.2728</b>	<b>0.0000</b>	<b>88.7555</b>	<b>88.7555</b>	<b>0.0855</b>	<b>0.0000</b>	<b>90.8935</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Wiley Canyon**

**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.91	1000sqft	0.20	8,914.00	0
Enclosed Parking Structure	602.00	Space	5.42	240,800.00	0
Parking Lot	143.00	Space	1.29	57,200.00	0
City Park	15.00	Acre	15.00	653,400.00	0
Health Club	2.40	1000sqft	0.06	2,400.00	0
Recreational Swimming Pool	2.07	1000sqft	0.05	2,070.00	0
Apartments Mid Rise	379.00	Dwelling Unit	8.79	382,972.00	1084
Retirement Community	217.00	Dwelling Unit	6.36	277,108.00	621
Enclosed Parking Structure	48.00	Space	0.43	19,200.00	0
Parking Lot	176.00	Space	1.58	70,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - See SCE EF Forecast

Land Use - See Construction Assumptions

Construction Phase - See Construction Assumptions

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Equipment
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Constructions Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Trips and VMT - Trips and VMT calculated outside of CalEEMod
- Demolition -
- Grading -
- Woodstoves - No Wood Stoves or fire places
- Energy Use -
- Construction Off-road Equipment Mitigation - Mitigation
- Water Mitigation -
- Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,657.00	7,749.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,971.00	23,246.00
tblArchitecturalCoating	ConstArea_Parking	26,160.00	22,584.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	445,554.00	427,345.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,336,662.00	1,282,036.00
tblAreaCoating	Area_Nonresidential_Exterior	5657	7749
tblAreaCoating	Area_Nonresidential_Interior	16971	23246
tblAreaCoating	Area_Parking	26160	22584
tblAreaCoating	Area_Residential_Exterior	445554	427345
tblAreaCoating	Area_Residential_Interior	1336662	1282036
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15



Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	55.00	114.00
tblConstructionPhase	NumDays	740.00	394.00
tblConstructionPhase	NumDays	50.00	14.00
tblConstructionPhase	NumDays	75.00	193.00
tblConstructionPhase	NumDays	75.00	85.00
tblConstructionPhase	NumDays	55.00	38.00
tblConstructionPhase	NumDays	30.00	14.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	322.15	0.00
tblFireplaces	NumberGas	184.45	0.00
tblFireplaces	NumberNoFireplace	37.90	0.00

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblFireplaces	NumberNoFireplace	21.70	0.00
tblFireplaces	NumberWood	18.95	0.00
tblFireplaces	NumberWood	10.85	0.00
tblGrading	AcresOfGrading	1,447.50	253.31
tblGrading	AcresOfGrading	42.50	37.19
tblLandUse	LandUseSquareFeet	8,910.00	8,914.00
tblLandUse	LandUseSquareFeet	379,000.00	382,972.00
tblLandUse	LandUseSquareFeet	217,000.00	277,108.00
tblLandUse	LotAcreage	9.97	8.79
tblLandUse	LotAcreage	43.40	6.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	174.34	172.50
tblSolidWaste	SolidWasteGenerationRate	8.29	10.13
tblSolidWaste	SolidWasteGenerationRate	13.68	14.48
tblSolidWaste	SolidWasteGenerationRate	99.82	99.36
tblTripsAndVMT	HaulingTripNumber	168.00	0.00

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblTripsAndVMT	VendorTripNumber	244.00	0.00
tblTripsAndVMT	WorkerTripNumber	38.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	0.00
tblTripsAndVMT	WorkerTripNumber	43.00	0.00
tblTripsAndVMT	WorkerTripNumber	45.00	0.00
tblTripsAndVMT	WorkerTripNumber	30.00	0.00
tblTripsAndVMT	WorkerTripNumber	891.00	0.00
tblTripsAndVMT	WorkerTripNumber	178.00	0.00
tblTripsAndVMT	WorkerTripNumber	28.00	0.00
tblWater	IndoorWaterUseRate	24,693,375.71	24,432,759.61
tblWater	IndoorWaterUseRate	1,583,607.69	1,935,520.52
tblWater	IndoorWaterUseRate	141,943.55	150,223.59
tblWater	IndoorWaterUseRate	14,138,423.56	14,073,269.53
tblWater	OutdoorWaterUseRate	15,567,562.95	15,403,261.49
tblWater	OutdoorWaterUseRate	970,598.26	1,186,286.77
tblWater	OutdoorWaterUseRate	86,997.66	92,072.52
tblWater	OutdoorWaterUseRate	8,913,353.98	8,872,278.62
tblWoodstoves	NumberCatalytic	18.95	0.00
tblWoodstoves	NumberCatalytic	10.85	0.00
tblWoodstoves	NumberNoncatalytic	18.95	0.00
tblWoodstoves	NumberNoncatalytic	10.85	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
2023	11.5292	113.1354	98.7523	0.2260	7.4140	4.7857	12.1997	3.4605	4.4541	7.9146	0.0000	21,768.81 24	21,768.81 24	6.2878	0.0000	21,926.00 65
2024	6.5392	56.6338	67.4806	0.1353	6.4861	2.5812	9.0673	3.3603	2.4400	5.8004	0.0000	12,972.35 77	12,972.35 77	3.0861	0.0000	13,049.50 91
2025	43.2831	52.3682	69.0426	0.1167	0.0000	2.2550	2.2550	0.0000	2.1375	2.1375	0.0000	11,052.20 60	11,052.20 60	2.4245	0.0000	11,112.81 87
<b>Maximum</b>	<b>43.2831</b>	<b>113.1354</b>	<b>98.7523</b>	<b>0.2260</b>	<b>7.4140</b>	<b>4.7857</b>	<b>12.1997</b>	<b>3.4605</b>	<b>4.4541</b>	<b>7.9146</b>	<b>0.0000</b>	<b>21,768.81 24</b>	<b>21,768.81 24</b>	<b>6.2878</b>	<b>0.0000</b>	<b>21,926.00 65</b>

**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					
2023	2.9034	13.9017	119.0079	0.2260	2.8915	0.4046	3.2960	1.3496	0.4046	1.7542	0.0000	21,768.81 24	21,768.81 24	6.2878	0.0000	21,926.00 65
2024	1.7244	9.7993	80.8423	0.1353	2.5296	0.2672	2.7652	1.3105	0.2672	1.5462	0.0000	12,972.35 77	12,972.35 77	3.0861	0.0000	13,049.50 91
2025	39.3244	12.3830	76.1746	0.1167	0.0000	0.3428	0.3428	0.0000	0.3428	0.3428	0.0000	11,052.20 60	11,052.20 60	2.4245	0.0000	11,112.81 87
<b>Maximum</b>	<b>39.3244</b>	<b>13.9017</b>	<b>119.0079</b>	<b>0.2260</b>	<b>2.8915</b>	<b>0.4046</b>	<b>3.2960</b>	<b>1.3496</b>	<b>0.4046</b>	<b>1.7542</b>	<b>0.0000</b>	<b>21,768.81 24</b>	<b>21,768.81 24</b>	<b>6.2878</b>	<b>0.0000</b>	<b>21,926.00 65</b>





Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	16.1052	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728	0.0000	88.7555	88.7555	0.0855	0.0000	90.8935
Energy	0.2521	2.1562	0.9326	0.0138		0.1742	0.1742		0.1742	0.1742		2,749.8586	2,749.8586	0.0527	0.0504	2,766.1997
Mobile	8.3302	9.2492	84.2141	0.1835	20.0291	0.1360	20.1652	5.3352	0.1263	5.4615		18,717.6524	18,717.6524	1.3089	0.8181	18,994.1712
<b>Total</b>	<b>24.6874</b>	<b>11.9726</b>	<b>134.3984</b>	<b>0.1999</b>	<b>20.0291</b>	<b>0.5830</b>	<b>20.6121</b>	<b>5.3352</b>	<b>0.5733</b>	<b>5.9084</b>	<b>0.0000</b>	<b>21,556.2665</b>	<b>21,556.2665</b>	<b>1.4471</b>	<b>0.8685</b>	<b>21,851.2643</b>

**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	16.1052	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728	0.0000	88.7555	88.7555	0.0855	0.0000	90.8935
Energy	0.2521	2.1562	0.9326	0.0138		0.1742	0.1742		0.1742	0.1742		2,749.8586	2,749.8586	0.0527	0.0504	2,766.1997
Mobile	8.3302	9.2492	84.2141	0.1835	20.0291	0.1360	20.1652	5.3352	0.1263	5.4615		18,717.6524	18,717.6524	1.3089	0.8181	18,994.1712
<b>Total</b>	<b>24.6874</b>	<b>11.9726</b>	<b>134.3984</b>	<b>0.1999</b>	<b>20.0291</b>	<b>0.5830</b>	<b>20.6121</b>	<b>5.3352</b>	<b>0.5733</b>	<b>5.9084</b>	<b>0.0000</b>	<b>21,556.2665</b>	<b>21,556.2665</b>	<b>1.4471</b>	<b>0.8685</b>	<b>21,851.2643</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/19/2023	5	14	
2	Site Preparation	Site Preparation	1/13/2023	2/1/2023	5	14	
3	Grading	Grading	2/4/2023	11/1/2023	5	193	
4	Drainage/Utilities/Sub-grade	Trenching	6/16/2023	1/2/2024	5	143	
5	Foundations/Concrete Pour	Grading	1/2/2024	4/29/2024	5	85	
6	Building Construction	Building Construction	4/30/2024	11/1/2025	5	394	
7	Architectural Coating	Architectural Coating	7/26/2025	12/31/2025	5	114	
8	Paving	Paving	8/23/2025	10/15/2025	5	38	

**Acres of Grading (Site Preparation Phase): 14**

**Acres of Grading (Grading Phase): 253.31**

**Acres of Paving: 8.72**

**Residential Indoor: 1,282,036; Residential Outdoor: 427,345; Non-Residential Indoor: 23,246; Non-Residential Outdoor: 7,749; Striped Parking Area: 22,584 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	8.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Demolition	Dumpers/Tenders	1	8.00	16	0.38
Demolition	Excavators	2	8.00	158	0.38
Demolition	Forklifts	1	8.00	89	0.20
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Demolition	Rubber Tired Loaders	2	8.00	203	0.36
Demolition	Skid Steer Loaders	2	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Welders	1	8.00	46	0.45
Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Forklifts	1	8.00	89	0.20
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Rollers	1	8.00	80	0.38
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Sweepers/Scrubbers	1	8.00	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Dumpers/Tenders	1	8.00	16	0.38
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Pumps	1	8.00	84	0.74
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	6	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Drainage/Utilities/Sub-grade	Air Compressors	2	8.00	78	0.48
Drainage/Utilities/Sub-grade	Bore/Drill Rigs	1	8.00	221	0.50

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Drainage/Utilities/Sub-grade	Excavators	2	8.00	158	0.38
Drainage/Utilities/Sub-grade	Forklifts	1	8.00	89	0.20
Drainage/Utilities/Sub-grade	Off-Highway Trucks	1	8.00	402	0.38
Drainage/Utilities/Sub-grade	Plate Compactors	2	8.00	8	0.43
Drainage/Utilities/Sub-grade	Pumps	2	8.00	84	0.74
Drainage/Utilities/Sub-grade	Rough Terrain Forklifts	1	8.00	100	0.40
Drainage/Utilities/Sub-grade	Rubber Tired Loaders	2	8.00	203	0.36
Drainage/Utilities/Sub-grade	Skid Steer Loaders	1	8.00	65	0.37
Drainage/Utilities/Sub-grade	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Drainage/Utilities/Sub-grade	Trenchers	1	8.00	78	0.50
Foundations/Concrete Pour	Air Compressors	2	8.00	78	0.48
Foundations/Concrete Pour	Concrete/Industrial Saws	1	8.00	81	0.73
Foundations/Concrete Pour	Cranes	1	8.00	231	0.29
Foundations/Concrete Pour	Excavators	1	8.00	158	0.38
Foundations/Concrete Pour	Forklifts	1	8.00	89	0.20
Foundations/Concrete Pour	Plate Compactors	1	8.00	8	0.43
Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Foundations/Concrete Pour	Rubber Tired Dozers	1	8.00	247	0.40
Foundations/Concrete Pour	Sweepers/Scrubbers	1	8.00	64	0.46
Foundations/Concrete Pour	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Air Compressors	3	8.00	78	0.48
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Dumpers/Tenders	1	8.00	16	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	4	8.00	46	0.45
Architectural Coating	Air Compressors	2	8.00	78	0.48

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Architectural Coating	Cranes	1	8.00	231	0.29
Architectural Coating	Forklifts	3	8.00	89	0.20
Architectural Coating	Rough Terrain Forklifts	1	8.00	100	0.40
Architectural Coating	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Air Compressors	1	8.00	78	0.48
Paving	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Sweepers/Scrubbers	1	8.00	64	0.46
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	15	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	9	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	17	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage/Utilities/Sub-grade	18	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Foundations/Concrete Pour	12	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	16	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	11	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 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					
Fugitive Dust					2.6015	0.0000	2.6015	0.3939	0.0000	0.3939			0.0000			0.0000
Off-Road	3.3250	26.9257	33.5293	0.0685		1.1774	1.1774		1.1192	1.1192		6,544.256 2	6,544.256 2	1.6224		6,584.814 9
<b>Total</b>	<b>3.3250</b>	<b>26.9257</b>	<b>33.5293</b>	<b>0.0685</b>	<b>2.6015</b>	<b>1.1774</b>	<b>3.7789</b>	<b>0.3939</b>	<b>1.1192</b>	<b>1.5131</b>		<b>6,544.256 2</b>	<b>6,544.256 2</b>	<b>1.6224</b>		<b>6,584.814 9</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0146	0.0000	1.0146	0.1536	0.0000	0.1536			0.0000			0.0000
Off-Road	1.1403	7.2885	40.9762	0.0685		0.1740	0.1740		0.1740	0.1740	0.0000	6,544.256 2	6,544.256 2	1.6224		6,584.814 9
<b>Total</b>	<b>1.1403</b>	<b>7.2885</b>	<b>40.9762</b>	<b>0.0685</b>	<b>1.0146</b>	<b>0.1740</b>	<b>1.1886</b>	<b>0.1536</b>	<b>0.1740</b>	<b>0.3277</b>	<b>0.0000</b>	<b>6,544.256 2</b>	<b>6,544.256 2</b>	<b>1.6224</b>		<b>6,584.814 9</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 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					
Fugitive Dust					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	2.5496	23.7662	23.1249	0.0528		1.0327	1.0327		0.9604	0.9604		5,098.6217	5,098.6217	1.4865		5,135.7847
<b>Total</b>	<b>2.5496</b>	<b>23.7662</b>	<b>23.1249</b>	<b>0.0528</b>	<b>1.0605</b>	<b>1.0327</b>	<b>2.0932</b>	<b>0.1145</b>	<b>0.9604</b>	<b>1.0749</b>		<b>5,098.6217</b>	<b>5,098.6217</b>	<b>1.4865</b>		<b>5,135.7847</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4136	0.0000	0.4136	0.0447	0.0000	0.0447			0.0000			0.0000
Off-Road	0.6902	5.0851	28.4348	0.0528		0.0845	0.0845		0.0845	0.0845	0.0000	5,098.621 7	5,098.621 7	1.4865		5,135.784 7
<b>Total</b>	<b>0.6902</b>	<b>5.0851</b>	<b>28.4348</b>	<b>0.0528</b>	<b>0.4136</b>	<b>0.0845</b>	<b>0.4981</b>	<b>0.0447</b>	<b>0.0845</b>	<b>0.1291</b>	<b>0.0000</b>	<b>5,098.621 7</b>	<b>5,098.621 7</b>	<b>1.4865</b>		<b>5,135.784 7</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 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					
Fugitive Dust					7.4140	0.0000	7.4140	3.4605	0.0000	3.4605			0.0000			0.0000
Off-Road	7.7221	80.1101	59.3225	0.1417		3.2738	3.2738		3.0248	3.0248		13,683.95 77	13,683.95 77	4.2319		13,789.75 60
<b>Total</b>	<b>7.7221</b>	<b>80.1101</b>	<b>59.3225</b>	<b>0.1417</b>	<b>7.4140</b>	<b>3.2738</b>	<b>10.6878</b>	<b>3.4605</b>	<b>3.0248</b>	<b>6.4854</b>		<b>13,683.95 77</b>	<b>13,683.95 77</b>	<b>4.2319</b>		<b>13,789.75 60</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**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					2.8915	0.0000	2.8915	1.3496	0.0000	1.3496			0.0000			0.0000
Off-Road	1.8228	8.1223	69.2953	0.1417		0.2550	0.2550		0.2550	0.2550	0.0000	13,683.95 77	13,683.95 77	4.2319		13,789.75 60
<b>Total</b>	<b>1.8228</b>	<b>8.1223</b>	<b>69.2953</b>	<b>0.1417</b>	<b>2.8915</b>	<b>0.2550</b>	<b>3.1465</b>	<b>1.3496</b>	<b>0.2550</b>	<b>1.6046</b>	<b>0.0000</b>	<b>13,683.95 77</b>	<b>13,683.95 77</b>	<b>4.2319</b>		<b>13,789.75 60</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Drainage/Utilities/Sub-grade - 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	3.8070	33.0253	39.4298	0.0842		1.5120	1.5120		1.4292	1.4292		8,084.8547	8,084.8547	2.0558		8,136.2505
<b>Total</b>	<b>3.8070</b>	<b>33.0253</b>	<b>39.4298</b>	<b>0.0842</b>		<b>1.5120</b>	<b>1.5120</b>		<b>1.4292</b>	<b>1.4292</b>		<b>8,084.8547</b>	<b>8,084.8547</b>	<b>2.0558</b>		<b>8,136.2505</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Drainage/Utilities/Sub-grade - 2023**

**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	1.0806	5.7794	49.7126	0.0842		0.1495	0.1495		0.1495	0.1495	0.0000	8,084.8547	8,084.8547	2.0558		8,136.2505
<b>Total</b>	<b>1.0806</b>	<b>5.7794</b>	<b>49.7126</b>	<b>0.0842</b>		<b>0.1495</b>	<b>0.1495</b>		<b>0.1495</b>	<b>0.1495</b>	<b>0.0000</b>	<b>8,084.8547</b>	<b>8,084.8547</b>	<b>2.0558</b>		<b>8,136.2505</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Drainage/Utilities/Sub-grade - 2024**

**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	3.6368	30.7160	39.3745	0.0843		1.3632	1.3632		1.2875	1.2875		8,087.8566	8,087.8566	2.0520		8,139.1558
<b>Total</b>	<b>3.6368</b>	<b>30.7160</b>	<b>39.3745</b>	<b>0.0843</b>		<b>1.3632</b>	<b>1.3632</b>		<b>1.2875</b>	<b>1.2875</b>		<b>8,087.8566</b>	<b>8,087.8566</b>	<b>2.0520</b>		<b>8,139.1558</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Drainage/Utilities/Sub-grade - 2024**

**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	1.0806	5.7794	49.7126	0.0843		0.1495	0.1495		0.1495	0.1495	0.0000	8,087.8566	8,087.8566	2.0520		8,139.1558
<b>Total</b>	<b>1.0806</b>	<b>5.7794</b>	<b>49.7126</b>	<b>0.0843</b>		<b>0.1495</b>	<b>0.1495</b>		<b>0.1495</b>	<b>0.1495</b>	<b>0.0000</b>	<b>8,087.8566</b>	<b>8,087.8566</b>	<b>2.0520</b>		<b>8,139.1558</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Foundations/Concrete Pour - 2024**

**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					6.4861	0.0000	6.4861	3.3603	0.0000	3.3603			0.0000			0.0000
Off-Road	2.9024	25.9179	28.1061	0.0510		1.2180	1.2180		1.1525	1.1525		4,884.501 2	4,884.501 2	1.0341		4,910.353 2
<b>Total</b>	<b>2.9024</b>	<b>25.9179</b>	<b>28.1061</b>	<b>0.0510</b>	<b>6.4861</b>	<b>1.2180</b>	<b>7.7040</b>	<b>3.3603</b>	<b>1.1525</b>	<b>4.5129</b>		<b>4,884.501 2</b>	<b>4,884.501 2</b>	<b>1.0341</b>		<b>4,910.353 2</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Foundations/Concrete Pour - 2024**

**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					2.5296	0.0000	2.5296	1.3105	0.0000	1.3105			0.0000			0.0000
Off-Road	0.6438	4.0199	31.1297	0.0510		0.0861	0.0861		0.0861	0.0861	0.0000	4,884.501 2	4,884.501 2	1.0341		4,910.353 2
<b>Total</b>	<b>0.6438</b>	<b>4.0199</b>	<b>31.1297</b>	<b>0.0510</b>	<b>2.5296</b>	<b>0.0861</b>	<b>2.6157</b>	<b>1.3105</b>	<b>0.0861</b>	<b>1.3966</b>	<b>0.0000</b>	<b>4,884.501 2</b>	<b>4,884.501 2</b>	<b>1.0341</b>		<b>4,910.353 2</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Building Construction - 2024**

**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	3.2608	24.9069	31.1799	0.0523		1.1104	1.1104		1.0759	1.0759		4,838.7759	4,838.7759	0.7298		4,857.0197
<b>Total</b>	<b>3.2608</b>	<b>24.9069</b>	<b>31.1799</b>	<b>0.0523</b>		<b>1.1104</b>	<b>1.1104</b>		<b>1.0759</b>	<b>1.0759</b>		<b>4,838.7759</b>	<b>4,838.7759</b>	<b>0.7298</b>		<b>4,857.0197</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Building Construction - 2024**

**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	1.4674	7.9400	32.9185	0.0523		0.2672	0.2672		0.2672	0.2672	0.0000	4,838.775 9	4,838.775 9	0.7298		4,857.019 7
<b>Total</b>	<b>1.4674</b>	<b>7.9400</b>	<b>32.9185</b>	<b>0.0523</b>		<b>0.2672</b>	<b>0.2672</b>		<b>0.2672</b>	<b>0.2672</b>	<b>0.0000</b>	<b>4,838.775 9</b>	<b>4,838.775 9</b>	<b>0.7298</b>		<b>4,857.019 7</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Building Construction - 2025**

**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	3.0550	23.4040	31.0512	0.0523		0.9548	0.9548		0.9249	0.9249		4,839.374 1	4,839.374 1	0.7178		4,857.320 2
<b>Total</b>	<b>3.0550</b>	<b>23.4040</b>	<b>31.0512</b>	<b>0.0523</b>		<b>0.9548</b>	<b>0.9548</b>		<b>0.9249</b>	<b>0.9249</b>		<b>4,839.374 1</b>	<b>4,839.374 1</b>	<b>0.7178</b>		<b>4,857.320 2</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Building Construction - 2025**

**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	1.4032	7.7852	32.8702	0.0523		0.2409	0.2409		0.2409	0.2409	0.0000	4,839.374 <sub>1</sub>	4,839.374 <sub>1</sub>	0.7178		4,857.320 <sub>2</sub>
<b>Total</b>	<b>1.4032</b>	<b>7.7852</b>	<b>32.8702</b>	<b>0.0523</b>		<b>0.2409</b>	<b>0.2409</b>		<b>0.2409</b>	<b>0.2409</b>	<b>0.0000</b>	<b>4,839.374<sub>1</sub></b>	<b>4,839.374<sub>1</sub></b>	<b>0.7178</b>		<b>4,857.320<sub>2</sub></b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.8 Architectural Coating - 2025**

**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	36.9283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.2582	11.2977	14.4773	0.0249		0.4936	0.4936		0.4651	0.4651		2,389.220 2	2,389.220 2	0.5709		2,403.493 4
<b>Total</b>	<b>38.1865</b>	<b>11.2977</b>	<b>14.4773</b>	<b>0.0249</b>		<b>0.4936</b>	<b>0.4936</b>		<b>0.4651</b>	<b>0.4651</b>		<b>2,389.220 2</b>	<b>2,389.220 2</b>	<b>0.5709</b>		<b>2,403.493 4</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.8 Architectural Coating - 2025**

**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	36.9283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2870	1.2434	15.9228	0.0249		0.0383	0.0383		0.0383	0.0383	0.0000	2,389.220 2	2,389.220 2	0.5709		2,403.493 4
<b>Total</b>	<b>37.2153</b>	<b>1.2434</b>	<b>15.9228</b>	<b>0.0249</b>		<b>0.0383</b>	<b>0.0383</b>		<b>0.0383</b>	<b>0.0383</b>	<b>0.0000</b>	<b>2,389.220 2</b>	<b>2,389.220 2</b>	<b>0.5709</b>		<b>2,403.493 4</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.9 Paving - 2025**

**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	1.8437	17.6665	23.5141	0.0396		0.8065	0.8065		0.7475	0.7475		3,823.6117	3,823.6117	1.1357		3,852.0051
Paving	0.1979					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0416</b>	<b>17.6665</b>	<b>23.5141</b>	<b>0.0396</b>		<b>0.8065</b>	<b>0.8065</b>		<b>0.7475</b>	<b>0.7475</b>		<b>3,823.6117</b>	<b>3,823.6117</b>	<b>1.1357</b>		<b>3,852.0051</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.9 Paving - 2025**

**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	0.5081	3.3543	27.3816	0.0396		0.0636	0.0636		0.0636	0.0636	0.0000	3,823.6117	3,823.6117	1.1357		3,852.0051
Paving	0.1979					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7060</b>	<b>3.3543</b>	<b>27.3816</b>	<b>0.0396</b>		<b>0.0636</b>	<b>0.0636</b>		<b>0.0636</b>	<b>0.0636</b>	<b>0.0000</b>	<b>3,823.6117</b>	<b>3,823.6117</b>	<b>1.1357</b>		<b>3,852.0051</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.3302	9.2492	84.2141	0.1835	20.0291	0.1360	20.1652	5.3352	0.1263	5.4615		18,717.65 24	18,717.65 24	1.3089	0.8181	18,994.17 12
Unmitigated	8.3302	9.2492	84.2141	0.1835	20.0291	0.1360	20.1652	5.3352	0.1263	5.4615		18,717.65 24	18,717.65 24	1.3089	0.8181	18,994.17 12

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,061.76	1,860.89	1550.11	6,697,520	6,697,520
City Park	11.70	29.40	32.85	49,638	49,638
Enclosed Parking Structure	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	86.78	19.69	6.24	211,625	211,625
Health Club	79.03	50.09	64.15	155,641	155,641
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	59.66	18.84	28.15	120,132	120,132
Retirement Community	520.80	440.51	423.15	1,692,789	1,692,789
<b>Total</b>	<b>2,819.73</b>	<b>2,419.42</b>	<b>2,104.65</b>	<b>8,927,345</b>	<b>8,927,345</b>

4.3 Trip Type Information

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	Miles			Trip %			Trip Purpose %		
	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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Retirement Community	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
City Park	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Enclosed Parking Structure	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
General Office Building	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Health Club	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Parking Lot	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Recreational Swimming Pool	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Retirement Community	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2521	2.1562	0.9326	0.0138		0.1742	0.1742		0.1742	0.1742		2,749.8586	2,749.8586	0.0527	0.0504	2,766.1997
NaturalGas Unmitigated	0.2521	2.1562	0.9326	0.0138		0.1742	0.1742		0.1742	0.1742		2,749.8586	2,749.8586	0.0527	0.0504	2,766.1997

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
Apartments Mid Rise	13567.8	0.1463	1.2504	0.5321	7.9800e-003		0.1011	0.1011		0.1011	0.1011		1,596.2087	1,596.2087	0.0306	0.0293	1,605.6942
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	251.79	2.7200e-003	0.0247	0.0207	1.5000e-004		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003		29.6224	29.6224	5.7000e-004	5.4000e-004	29.7984
Health Club	118.093	1.2700e-003	0.0116	9.7300e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		13.8933	13.8933	2.7000e-004	2.5000e-004	13.9759
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	9436.14	0.1018	0.8696	0.3700	5.5500e-003		0.0703	0.0703		0.0703	0.0703		1,110.1342	1,110.1342	0.0213	0.0204	1,116.7312
<b>Total</b>		<b>0.2521</b>	<b>2.1562</b>	<b>0.9326</b>	<b>0.0138</b>		<b>0.1742</b>	<b>0.1742</b>		<b>0.1742</b>	<b>0.1742</b>		<b>2,749.8586</b>	<b>2,749.8586</b>	<b>0.0527</b>	<b>0.0504</b>	<b>2,766.1997</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
Apartments Mid Rise	13.5678	0.1463	1.2504	0.5321	7.9800e-003		0.1011	0.1011		0.1011	0.1011		1,596.2087	1,596.2087	0.0306	0.0293	1,605.6942
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.25179	2.7200e-003	0.0247	0.0207	1.5000e-004		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003		29.6224	29.6224	5.7000e-004	5.4000e-004	29.7984
Health Club	0.118093	1.2700e-003	0.0116	9.7300e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		13.8933	13.8933	2.7000e-004	2.5000e-004	13.9759
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	9.43614	0.1018	0.8696	0.3700	5.5500e-003		0.0703	0.0703		0.0703	0.0703		1,110.1342	1,110.1342	0.0213	0.0204	1,116.7312
<b>Total</b>		<b>0.2521</b>	<b>2.1562</b>	<b>0.9326</b>	<b>0.0138</b>		<b>0.1742</b>	<b>0.1742</b>		<b>0.1742</b>	<b>0.1742</b>		<b>2,749.8586</b>	<b>2,749.8586</b>	<b>0.0527</b>	<b>0.0504</b>	<b>2,766.1997</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	16.1052	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728	0.0000	88.7555	88.7555	0.0855	0.0000	90.8935
Unmitigated	16.1052	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728	0.0000	88.7555	88.7555	0.0855	0.0000	90.8935

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.4646					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	1.4872	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728		88.7555	88.7555	0.0855		90.8935
<b>Total</b>	<b>16.1052</b>	<b>0.5672</b>	<b>49.2518</b>	<b>2.6000e-003</b>		<b>0.2728</b>	<b>0.2728</b>		<b>0.2728</b>	<b>0.2728</b>	<b>0.0000</b>	<b>88.7555</b>	<b>88.7555</b>	<b>0.0855</b>	<b>0.0000</b>	<b>90.8935</b>



Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.4646					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	1.4872	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728		88.7555	88.7555	0.0855		90.8935
<b>Total</b>	<b>16.1052</b>	<b>0.5672</b>	<b>49.2518</b>	<b>2.6000e-003</b>		<b>0.2728</b>	<b>0.2728</b>		<b>0.2728</b>	<b>0.2728</b>	<b>0.0000</b>	<b>88.7555</b>	<b>88.7555</b>	<b>0.0855</b>	<b>0.0000</b>	<b>90.8935</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Wiley Canyon**

**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.91	1000sqft	0.20	8,914.00	0
Enclosed Parking Structure	602.00	Space	5.42	240,800.00	0
Enclosed Parking Structure	48.00	Space	0.43	19,200.00	0
Parking Lot	143.00	Space	1.29	57,200.00	0
Parking Lot	176.00	Space	1.58	70,400.00	0
City Park	15.00	Acre	15.00	653,400.00	0
Health Club	2.40	1000sqft	0.06	2,400.00	0
Recreational Swimming Pool	2.07	1000sqft	0.05	2,070.00	0
Apartments Mid Rise	379.00	Dwelling Unit	8.79	382,972.00	1084
Retirement Community	217.00	Dwelling Unit	6.36	277,108.00	621

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - See SCE EF Forecast

Land Use - See Construction Assumptions

Construction Phase - See Construction Assumptions

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Equipment
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Constructions Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Trips and VMT - Trips and VMT calculated outside of CalEEMod
- Demolition -
- Grading -
- Woodstoves - No Wood Stoves or fire places
- Energy Use -
- Construction Off-road Equipment Mitigation - Mitigation
- Water Mitigation -
- Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,657.00	7,749.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,971.00	23,246.00
tblArchitecturalCoating	ConstArea_Parking	23,256.00	22,584.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	445,554.00	427,345.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,336,662.00	1,282,036.00
tblAreaCoating	Area_Nonresidential_Exterior	5657	7749
tblAreaCoating	Area_Nonresidential_Interior	16971	23246
tblAreaCoating	Area_Parking	23256	22584
tblAreaCoating	Area_Residential_Exterior	445554	427345
tblAreaCoating	Area_Residential_Interior	1336662	1282036
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	55.00	114.00
tblConstructionPhase	NumDays	740.00	394.00
tblConstructionPhase	NumDays	50.00	14.00
tblConstructionPhase	NumDays	75.00	193.00
tblConstructionPhase	NumDays	75.00	85.00
tblConstructionPhase	NumDays	55.00	38.00
tblConstructionPhase	NumDays	30.00	14.00
tblFireplaces	FireplaceDayYear	25.00	0.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	322.15	0.00
tblFireplaces	NumberGas	184.45	0.00
tblFireplaces	NumberNoFireplace	37.90	0.00
tblFireplaces	NumberNoFireplace	21.70	0.00
tblFireplaces	NumberWood	18.95	0.00
tblFireplaces	NumberWood	10.85	0.00
tblGrading	AcresOfGrading	1,447.50	253.31
tblGrading	AcresOfGrading	42.50	37.19
tblLandUse	LandUseSquareFeet	8,910.00	8,914.00
tblLandUse	LandUseSquareFeet	379,000.00	382,972.00
tblLandUse	LandUseSquareFeet	217,000.00	277,108.00
tblLandUse	LotAcreage	9.97	8.79
tblLandUse	LotAcreage	43.40	6.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	174.34	172.50
tblSolidWaste	SolidWasteGenerationRate	8.29	10.13
tblSolidWaste	SolidWasteGenerationRate	13.68	14.48
tblSolidWaste	SolidWasteGenerationRate	99.82	99.36
tblTripsAndVMT	HaulingTripNumber	168.00	0.00
tblTripsAndVMT	VendorTripNumber	237.00	0.00
tblTripsAndVMT	WorkerTripNumber	38.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	0.00
tblTripsAndVMT	WorkerTripNumber	43.00	0.00
tblTripsAndVMT	WorkerTripNumber	45.00	0.00
tblTripsAndVMT	WorkerTripNumber	30.00	0.00
tblTripsAndVMT	WorkerTripNumber	871.00	0.00
tblTripsAndVMT	WorkerTripNumber	174.00	0.00
tblTripsAndVMT	WorkerTripNumber	28.00	0.00
tblWater	IndoorWaterUseRate	24,693,375.71	24,432,759.61
tblWater	IndoorWaterUseRate	1,583,607.69	1,935,520.52
tblWater	IndoorWaterUseRate	141,943.55	150,223.59
tblWater	IndoorWaterUseRate	14,138,423.56	14,073,269.53
tblWater	OutdoorWaterUseRate	15,567,562.95	15,403,261.49
tblWater	OutdoorWaterUseRate	970,598.26	1,186,286.77
tblWater	OutdoorWaterUseRate	86,997.66	92,072.52
tblWater	OutdoorWaterUseRate	8,913,353.98	8,872,278.62
tblWoodstoves	NumberCatalytic	18.95	0.00
tblWoodstoves	NumberCatalytic	10.85	0.00
tblWoodstoves	NumberNoncatalytic	18.95	0.00
tblWoodstoves	NumberNoncatalytic	10.85	0.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
2023	1.0547	10.4138	8.9010	0.0205	0.7411	0.4380	1.1791	0.3375	0.4072	0.7447	0.0000	1,788.954 1	1,788.954 1	0.5217	0.0000	1,801.996 7
2024	0.4139	3.3240	3.9777	6.8500e-003	0.2757	0.1508	0.4265	0.1428	0.1450	0.2878	0.0000	581.9512	581.9512	0.1000	0.0000	584.4510
2025	2.5293	3.5250	4.6493	7.8600e-003	0.0000	0.1473	0.1473	0.0000	0.1413	0.1413	0.0000	666.8999	666.8999	0.1198	0.0000	669.8955
<b>Maximum</b>	<b>2.5293</b>	<b>10.4138</b>	<b>8.9010</b>	<b>0.0205</b>	<b>0.7411</b>	<b>0.4380</b>	<b>1.1791</b>	<b>0.3375</b>	<b>0.4072</b>	<b>0.7447</b>	<b>0.0000</b>	<b>1,788.954 1</b>	<b>1,788.954 1</b>	<b>0.5217</b>	<b>0.0000</b>	<b>1,801.996 7</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	1.0547	10.4137	8.9010	0.0205	0.2890	0.4380	0.7270	0.1316	0.4072	0.5388	0.0000	1,788.952 0	1,788.952 0	0.5217	0.0000	1,801.994 5
2024	0.4139	3.3240	3.9777	6.8500e-003	0.1075	0.1508	0.2584	0.0557	0.1450	0.2006	0.0000	581.9506	581.9506	0.1000	0.0000	584.4503
2025	2.5293	3.5250	4.6493	7.8600e-003	0.0000	0.1473	0.1473	0.0000	0.1413	0.1413	0.0000	666.8991	666.8991	0.1198	0.0000	669.8947
<b>Maximum</b>	<b>2.5293</b>	<b>10.4137</b>	<b>8.9010</b>	<b>0.0205</b>	<b>0.2890</b>	<b>0.4380</b>	<b>0.7270</b>	<b>0.1316</b>	<b>0.4072</b>	<b>0.5388</b>	<b>0.0000</b>	<b>1,788.952 0</b>	<b>1,788.952 0</b>	<b>0.5217</b>	<b>0.0000</b>	<b>1,801.994 5</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	61.00	0.00	35.38	61.00	0.00	24.96	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2023	4-1-2023	2.1705	2.1705
2	4-2-2023	7-1-2023	3.0650	3.0650
3	7-2-2023	10-1-2023	4.0961	4.0961
4	10-2-2023	1-1-2024	2.1817	2.1817
5	1-2-2024	4-1-2024	0.9489	0.9489
6	4-2-2024	7-1-2024	0.9220	0.9220
7	7-2-2024	10-1-2024	0.9255	0.9255
8	10-2-2024	1-1-2025	0.9249	0.9249
9	1-2-2025	4-1-2025	0.8505	0.8505
10	4-2-2025	7-1-2025	0.8599	0.8599
11	7-2-2025	9-30-2025	2.3185	2.3185
		Highest	4.0961	4.0961

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.8537	0.0709	6.1565	3.3000e-004		0.0341	0.0341		0.0341	0.0341	0.0000	10.0647	10.0647	9.7000e-003	0.0000	10.3072
Energy	0.0460	0.3935	0.1702	2.5100e-003		0.0318	0.0318		0.0318	0.0318	0.0000	1,151.1157	1,151.1157	0.0675	0.0155	1,157.4109
Mobile	1.3979	1.6014	14.5068	0.0317	3.3540	0.0232	3.3772	0.8948	0.0215	0.9164	0.0000	2,930.7731	2,930.7731	0.2017	0.1275	2,973.8032
Waste						0.0000	0.0000		0.0000	0.0000	62.8379	0.0000	62.8379	3.7136	0.0000	155.6782
Water						0.0000	0.0000		0.0000	0.0000	12.9167	179.7286	192.6454	1.3418	0.0332	236.0744
<b>Total</b>	<b>4.2976</b>	<b>2.0658</b>	<b>20.8334</b>	<b>0.0345</b>	<b>3.3540</b>	<b>0.0891</b>	<b>3.4431</b>	<b>0.8948</b>	<b>0.0874</b>	<b>0.9822</b>	<b>75.7546</b>	<b>4,271.6821</b>	<b>4,347.4367</b>	<b>5.3343</b>	<b>0.1761</b>	<b>4,533.2737</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.8537	0.0709	6.1565	3.3000e-004		0.0341	0.0341		0.0341	0.0341	0.0000	10.0647	10.0647	9.7000e-003	0.0000	10.3072
Energy	0.0460	0.3935	0.1702	2.5100e-003		0.0318	0.0318		0.0318	0.0318	0.0000	1,151.1157	1,151.1157	0.0675	0.0155	1,157.4109
Mobile	1.3979	1.6014	14.5068	0.0317	3.3540	0.0232	3.3772	0.8948	0.0215	0.9164	0.0000	2,930.7731	2,930.7731	0.2017	0.1275	2,973.8032
Waste						0.0000	0.0000		0.0000	0.0000	62.8379	0.0000	62.8379	3.7136	0.0000	155.6782
Water						0.0000	0.0000		0.0000	0.0000	12.9167	179.7286	192.6454	1.3418	0.0332	236.0744
<b>Total</b>	<b>4.2976</b>	<b>2.0658</b>	<b>20.8334</b>	<b>0.0345</b>	<b>3.3540</b>	<b>0.0891</b>	<b>3.4431</b>	<b>0.8948</b>	<b>0.0874</b>	<b>0.9822</b>	<b>75.7546</b>	<b>4,271.6821</b>	<b>4,347.4367</b>	<b>5.3343</b>	<b>0.1761</b>	<b>4,533.2737</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/19/2023	5	14	
2	Site Preparation	Site Preparation	1/13/2023	2/1/2023	5	14	
3	Grading	Grading	2/4/2023	11/1/2023	5	193	

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4	Drainage/Utilities/Sub-grade	Trenching	6/16/2023	1/2/2024	5	143
5	Foundations/Concrete Pour	Grading	1/2/2024	4/29/2024	5	85
6	Building Construction	Building Construction	4/30/2024	11/1/2025	5	394
7	Architectural Coating	Architectural Coating	7/26/2025	12/31/2025	5	114
8	Paving	Paving	8/23/2025	10/15/2025	5	38

**Acres of Grading (Site Preparation Phase): 14**

**Acres of Grading (Grading Phase): 253.31**

**Acres of Paving: 8.72**

**Residential Indoor: 1,282,036; Residential Outdoor: 427,345; Non-Residential Indoor: 23,246; Non-Residential Outdoor: 7,749; Striped Parking Area: 22,584 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	8.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Dumpers/Tenders	1	8.00	16	0.38
Demolition	Excavators	2	8.00	158	0.38
Demolition	Forklifts	1	8.00	89	0.20
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Demolition	Rubber Tired Loaders	2	8.00	203	0.36
Demolition	Skid Steer Loaders	2	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Welders	1	8.00	46	0.45
Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Forklifts	1	8.00	89	0.20
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Rollers	1	8.00	80	0.38

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Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Sweepers/Scrubbers	1	8.00	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Dumpers/Tenders	1	8.00	16	0.38
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Pumps	1	8.00	84	0.74
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	6	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Drainage/Utilities/Sub-grade	Air Compressors	2	8.00	78	0.48
Drainage/Utilities/Sub-grade	Bore/Drill Rigs	1	8.00	221	0.50
Drainage/Utilities/Sub-grade	Excavators	2	8.00	158	0.38
Drainage/Utilities/Sub-grade	Forklifts	1	8.00	89	0.20
Drainage/Utilities/Sub-grade	Off-Highway Trucks	1	8.00	402	0.38
Drainage/Utilities/Sub-grade	Plate Compactors	2	8.00	8	0.43
Drainage/Utilities/Sub-grade	Pumps	2	8.00	84	0.74
Drainage/Utilities/Sub-grade	Rough Terrain Forklifts	1	8.00	100	0.40
Drainage/Utilities/Sub-grade	Rubber Tired Loaders	2	8.00	203	0.36
Drainage/Utilities/Sub-grade	Skid Steer Loaders	1	8.00	65	0.37
Drainage/Utilities/Sub-grade	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Drainage/Utilities/Sub-grade	Trenchers	1	8.00	78	0.50
Foundations/Concrete Pour	Air Compressors	2	8.00	78	0.48
Foundations/Concrete Pour	Concrete/Industrial Saws	1	8.00	81	0.73

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Foundations/Concrete Pour	Cranes	1	8.00	231	0.29
Foundations/Concrete Pour	Excavators	1	8.00	158	0.38
Foundations/Concrete Pour	Forklifts	1	8.00	89	0.20
Foundations/Concrete Pour	Plate Compactors	1	8.00	8	0.43
Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Foundations/Concrete Pour	Rubber Tired Dozers	1	8.00	247	0.40
Foundations/Concrete Pour	Sweepers/Scrubbers	1	8.00	64	0.46
Foundations/Concrete Pour	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Air Compressors	3	8.00	78	0.48
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Dumpers/Tenders	1	8.00	16	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	4	8.00	46	0.45
Architectural Coating	Air Compressors	2	8.00	78	0.48
Architectural Coating	Cranes	1	8.00	231	0.29
Architectural Coating	Forklifts	3	8.00	89	0.20
Architectural Coating	Rough Terrain Forklifts	1	8.00	100	0.40
Architectural Coating	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Air Compressors	1	8.00	78	0.48
Paving	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Sweepers/Scrubbers	1	8.00	64	0.46
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	15	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	9	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	17	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage/Utilities/Sub-grade	18	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Foundations/Concrete Pour	12	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	16	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	11	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads















































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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3979	1.6014	14.5068	0.0317	3.3540	0.0232	3.3772	0.8948	0.0215	0.9164	0.0000	2,930.773 1	2,930.773 1	0.2017	0.1275	2,973.803 2
Unmitigated	1.3979	1.6014	14.5068	0.0317	3.3540	0.0232	3.3772	0.8948	0.0215	0.9164	0.0000	2,930.773 1	2,930.773 1	0.2017	0.1275	2,973.803 2

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,061.76	1,860.89	1550.11	6,697,520	6,697,520
City Park	11.70	29.40	32.85	49,638	49,638
Enclosed Parking Structure	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	86.78	19.69	6.24	211,625	211,625
Health Club	79.03	50.09	64.15	155,641	155,641
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	59.66	18.84	28.15	120,132	120,132
Retirement Community	520.80	440.51	423.15	1,692,789	1,692,789
<b>Total</b>	<b>2,819.73</b>	<b>2,419.42</b>	<b>2,104.65</b>	<b>8,927,345</b>	<b>8,927,345</b>

4.3 Trip Type Information

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	Miles			Trip %			Trip Purpose %		
	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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Retirement Community	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
City Park	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Enclosed Parking Structure	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
General Office Building	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Health Club	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Parking Lot	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Recreational Swimming Pool	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Retirement Community	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive 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	695.8457	695.8457	0.0587	7.1200e-003	699.4355
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	695.8457	695.8457	0.0587	7.1200e-003	699.4355
Natural Gas Mitigated	0.0460	0.3935	0.1702	2.5100e-003		0.0318	0.0318		0.0318	0.0318	0.0000	455.2699	455.2699	8.7300e-003	8.3500e-003	457.9754
Natural Gas Unmitigated	0.0460	0.3935	0.1702	2.5100e-003		0.0318	0.0318		0.0318	0.0318	0.0000	455.2699	455.2699	8.7300e-003	8.3500e-003	457.9754

Wiley Canyon - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.95224e+006	0.0267	0.2282	0.0971	1.4600e-003		0.0185	0.0185		0.0185	0.0185	0.0000	264.2703	264.2703	5.0700e-003	4.8400e-003	265.8407
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	91903.3	5.0000e-004	4.5100e-003	3.7800e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.9043	4.9043	9.0000e-005	9.0000e-005	4.9335
Health Club	43104	2.3000e-004	2.1100e-003	1.7700e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3002	2.3002	4.0000e-005	4.0000e-005	2.3139
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	3.44419e+006	0.0186	0.1587	0.0675	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.7952	183.7952	3.5200e-003	3.3700e-003	184.8874
<b>Total</b>		<b>0.0460</b>	<b>0.3935</b>	<b>0.1702</b>	<b>2.5100e-003</b>		<b>0.0318</b>	<b>0.0318</b>		<b>0.0318</b>	<b>0.0318</b>	<b>0.0000</b>	<b>455.2699</b>	<b>455.2699</b>	<b>8.7200e-003</b>	<b>8.3400e-003</b>	<b>457.9754</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	tons/yr										MT/yr					
Apartments Mid Rise	4.95224e+006	0.0267	0.2282	0.0971	1.4600e-003		0.0185	0.0185		0.0185	0.0185	0.0000	264.2703	264.2703	5.0700e-003	4.8400e-003	265.8407
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	91903.3	5.0000e-004	4.5100e-003	3.7800e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.9043	4.9043	9.0000e-005	9.0000e-005	4.9335
Health Club	43104	2.3000e-004	2.1100e-003	1.7700e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3002	2.3002	4.0000e-005	4.0000e-005	2.3139
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	3.44419e+006	0.0186	0.1587	0.0675	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.7952	183.7952	3.5200e-003	3.3700e-003	184.8874
<b>Total</b>		<b>0.0460</b>	<b>0.3935</b>	<b>0.1702</b>	<b>2.5100e-003</b>		<b>0.0318</b>	<b>0.0318</b>		<b>0.0318</b>	<b>0.0318</b>	<b>0.0000</b>	<b>455.2699</b>	<b>455.2699</b>	<b>8.7200e-003</b>	<b>8.3400e-003</b>	<b>457.9754</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.4589e+006	258.7301	0.0218	2.6500e-003	260.0648
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	1.2642e+006	224.2002	0.0189	2.2900e-003	225.3569
Enclosed Parking Structure	100800	17.8764	1.5100e-003	1.8000e-004	17.9687
General Office Building	111425	19.7607	1.6700e-003	2.0000e-004	19.8627
Health Club	26064	4.6223	3.9000e-004	5.0000e-005	4.6462
Parking Lot	20020	3.5505	3.0000e-004	4.0000e-005	3.5688
Parking Lot	24640	4.3698	3.7000e-004	4.0000e-005	4.3923
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	917619	162.7357	0.0137	1.6600e-003	163.5752
<b>Total</b>		<b>695.8457</b>	<b>0.0587</b>	<b>7.1100e-003</b>	<b>699.4355</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Mitigated**

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Apartments Mid Rise	1.4589e+006	258.7301	0.0218	2.6500e-003	260.0648
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	1.2642e+006	224.2002	0.0189	2.2900e-003	225.3569
Enclosed Parking Structure	100800	17.8764	1.5100e-003	1.8000e-004	17.9687
General Office Building	111425	19.7607	1.6700e-003	2.0000e-004	19.8627
Health Club	26064	4.6223	3.9000e-004	5.0000e-005	4.6462
Parking Lot	20020	3.5505	3.0000e-004	4.0000e-005	3.5688
Parking Lot	24640	4.3698	3.7000e-004	4.0000e-005	4.3923
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	917619	162.7357	0.0137	1.6600e-003	163.5752
<b>Total</b>		<b>695.8457</b>	<b>0.0587</b>	<b>7.1100e-003</b>	<b>699.4355</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.8537	0.0709	6.1565	3.3000e-004		0.0341	0.0341		0.0341	0.0341	0.0000	10.0647	10.0647	9.7000e-003	0.0000	10.3072
Unmitigated	2.8537	0.0709	6.1565	3.3000e-004		0.0341	0.0341		0.0341	0.0341	0.0000	10.0647	10.0647	9.7000e-003	0.0000	10.3072

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4573					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	0.1859	0.0709	6.1565	3.3000e-004		0.0341	0.0341		0.0341	0.0341	0.0000	10.0647	10.0647	9.7000e-003	0.0000	10.3072
<b>Total</b>	<b>2.8537</b>	<b>0.0709</b>	<b>6.1565</b>	<b>3.3000e-004</b>		<b>0.0341</b>	<b>0.0341</b>		<b>0.0341</b>	<b>0.0341</b>	<b>0.0000</b>	<b>10.0647</b>	<b>10.0647</b>	<b>9.7000e-003</b>	<b>0.0000</b>	<b>10.3072</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4573					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	0.1859	0.0709	6.1565	3.3000e-004		0.0341	0.0341		0.0341	0.0341	0.0000	10.0647	10.0647	9.7000e-003	0.0000	10.3072
<b>Total</b>	<b>2.8537</b>	<b>0.0709</b>	<b>6.1565</b>	<b>3.3000e-004</b>		<b>0.0341</b>	<b>0.0341</b>		<b>0.0341</b>	<b>0.0341</b>	<b>0.0000</b>	<b>10.0647</b>	<b>10.0647</b>	<b>9.7000e-003</b>	<b>0.0000</b>	<b>10.3072</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	192.6454	1.3418	0.0332	236.0744
Unmitigated	192.6454	1.3418	0.0332	236.0744

Wiley Canyon - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	24.4328 / 15.4033	94.5211	0.8035	0.0197	120.4743
City Park	0 / 17.8722	35.2138	2.9700e-003	3.6000e-004	35.3955
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.93552 / 1.18629	7.4209	0.0636	1.5600e-003	9.4766
Health Club	0.150224 / 0.0920725	0.5760	4.9400e-003	1.2000e-004	0.7355
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.122426 / 0.0750355	0.4694	4.0300e-003	1.0000e-004	0.5994
Retirement Community	14.0733 / 8.87228	54.4442	0.4628	0.0113	69.3932
<b>Total</b>		<b>192.6454</b>	<b>1.3419</b>	<b>0.0332</b>	<b>236.0744</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	24.4328 / 15.4033	94.5211	0.8035	0.0197	120.4743
City Park	0 / 17.8722	35.2138	2.9700e-003	3.6000e-004	35.3955
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.93552 / 1.18629	7.4209	0.0636	1.5600e-003	9.4766
Health Club	0.150224 / 0.0920725	0.5760	4.9400e-003	1.2000e-004	0.7355
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.122426 / 0.0750355	0.4694	4.0300e-003	1.0000e-004	0.5994
Retirement Community	14.0733 / 8.87228	54.4442	0.4628	0.0113	69.3932
<b>Total</b>		<b>192.6454</b>	<b>1.3419</b>	<b>0.0332</b>	<b>236.0744</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**



Wiley Canyon - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	62.8379	3.7136	0.0000	155.6782
Unmitigated	62.8379	3.7136	0.0000	155.6782

Wiley Canyon - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	172.5	35.0159	2.0694	0.0000	86.7505
City Park	1.29	0.2619	0.0155	0.0000	0.6487
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	10.13	2.0563	0.1215	0.0000	5.0944
Health Club	14.48	2.9393	0.1737	0.0000	7.2820
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.8	2.3953	0.1416	0.0000	5.9342
Retirement Community	99.36	20.1692	1.1920	0.0000	49.9683
<b>Total</b>		<b>62.8379</b>	<b>3.7136</b>	<b>0.0000</b>	<b>155.6782</b>

Wiley Canyon - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	172.5	35.0159	2.0694	0.0000	86.7505
City Park	1.29	0.2619	0.0155	0.0000	0.6487
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	10.13	2.0563	0.1215	0.0000	5.0944
Health Club	14.48	2.9393	0.1737	0.0000	7.2820
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.8	2.3953	0.1416	0.0000	5.9342
Retirement Community	99.36	20.1692	1.1920	0.0000	49.9683
<b>Total</b>		<b>62.8379</b>	<b>3.7136</b>	<b>0.0000</b>	<b>155.6782</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

Wiley Canyon - Los Angeles-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Wiley Canyon**

**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.91	1000sqft	0.20	8,914.00	0
Enclosed Parking Structure	602.00	Space	5.42	240,800.00	0
Enclosed Parking Structure	48.00	Space	0.43	19,200.00	0
Parking Lot	143.00	Space	1.29	57,200.00	0
Parking Lot	176.00	Space	1.58	70,400.00	0
City Park	15.00	Acre	15.00	653,400.00	0
Health Club	2.40	1000sqft	0.06	2,400.00	0
Recreational Swimming Pool	2.07	1000sqft	0.05	2,070.00	0
Apartments Mid Rise	379.00	Dwelling Unit	8.79	382,972.00	1084
Retirement Community	217.00	Dwelling Unit	6.36	277,108.00	621

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - See SCE EF Forecast

Land Use - See Construction Assumptions

Construction Phase - See Construction Assumptions

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Equipment
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Constructions Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Trips and VMT - Trips and VMT calculated outside of CalEEMod
- Demolition -
- Grading -
- Woodstoves - No Wood Stoves or fire places
- Energy Use -
- Construction Off-road Equipment Mitigation - Mitigation
- Water Mitigation -
- Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,657.00	7,749.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,971.00	23,246.00
tblArchitecturalCoating	ConstArea_Parking	23,256.00	22,584.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	445,554.00	427,345.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,336,662.00	1,282,036.00
tblAreaCoating	Area_Nonresidential_Exterior	5657	7749
tblAreaCoating	Area_Nonresidential_Interior	16971	23246
tblAreaCoating	Area_Parking	23256	22584
tblAreaCoating	Area_Residential_Exterior	445554	427345
tblAreaCoating	Area_Residential_Interior	1336662	1282036
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	55.00	114.00
tblConstructionPhase	NumDays	740.00	394.00
tblConstructionPhase	NumDays	50.00	14.00
tblConstructionPhase	NumDays	75.00	193.00
tblConstructionPhase	NumDays	75.00	85.00
tblConstructionPhase	NumDays	55.00	38.00
tblConstructionPhase	NumDays	30.00	14.00
tblFireplaces	FireplaceDayYear	25.00	0.00

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	322.15	0.00
tblFireplaces	NumberGas	184.45	0.00
tblFireplaces	NumberNoFireplace	37.90	0.00
tblFireplaces	NumberNoFireplace	21.70	0.00
tblFireplaces	NumberWood	18.95	0.00
tblFireplaces	NumberWood	10.85	0.00
tblGrading	AcresOfGrading	1,447.50	253.31
tblGrading	AcresOfGrading	42.50	37.19
tblLandUse	LandUseSquareFeet	8,910.00	8,914.00
tblLandUse	LandUseSquareFeet	379,000.00	382,972.00
tblLandUse	LandUseSquareFeet	217,000.00	277,108.00
tblLandUse	LotAcreage	9.97	8.79
tblLandUse	LotAcreage	43.40	6.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00



Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	174.34	172.50
tblSolidWaste	SolidWasteGenerationRate	8.29	10.13
tblSolidWaste	SolidWasteGenerationRate	13.68	14.48
tblSolidWaste	SolidWasteGenerationRate	99.82	99.36
tblTripsAndVMT	HaulingTripNumber	168.00	0.00
tblTripsAndVMT	VendorTripNumber	237.00	0.00
tblTripsAndVMT	WorkerTripNumber	38.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	0.00
tblTripsAndVMT	WorkerTripNumber	43.00	0.00
tblTripsAndVMT	WorkerTripNumber	45.00	0.00
tblTripsAndVMT	WorkerTripNumber	30.00	0.00
tblTripsAndVMT	WorkerTripNumber	871.00	0.00
tblTripsAndVMT	WorkerTripNumber	174.00	0.00
tblTripsAndVMT	WorkerTripNumber	28.00	0.00
tblWater	IndoorWaterUseRate	24,693,375.71	24,432,759.61
tblWater	IndoorWaterUseRate	1,583,607.69	1,935,520.52
tblWater	IndoorWaterUseRate	141,943.55	150,223.59
tblWater	IndoorWaterUseRate	14,138,423.56	14,073,269.53
tblWater	OutdoorWaterUseRate	15,567,562.95	15,403,261.49
tblWater	OutdoorWaterUseRate	970,598.26	1,186,286.77
tblWater	OutdoorWaterUseRate	86,997.66	92,072.52
tblWater	OutdoorWaterUseRate	8,913,353.98	8,872,278.62
tblWoodstoves	NumberCatalytic	18.95	0.00
tblWoodstoves	NumberCatalytic	10.85	0.00
tblWoodstoves	NumberNoncatalytic	18.95	0.00
tblWoodstoves	NumberNoncatalytic	10.85	0.00

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

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Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
2023	11.5292	113.1354	98.7523	0.2260	7.4140	4.7857	12.1997	3.4605	4.4541	7.9146	0.0000	21,768.81 24	21,768.81 24	6.2878	0.0000	21,926.00 65
2024	6.5392	56.6338	67.4806	0.1353	6.4861	2.5812	9.0673	3.3603	2.4400	5.8004	0.0000	12,972.35 77	12,972.35 77	3.0861	0.0000	13,049.50 91
2025	43.2831	52.3682	69.0426	0.1167	0.0000	2.2550	2.2550	0.0000	2.1375	2.1375	0.0000	11,052.20 60	11,052.20 60	2.4245	0.0000	11,112.81 87
<b>Maximum</b>	<b>43.2831</b>	<b>113.1354</b>	<b>98.7523</b>	<b>0.2260</b>	<b>7.4140</b>	<b>4.7857</b>	<b>12.1997</b>	<b>3.4605</b>	<b>4.4541</b>	<b>7.9146</b>	<b>0.0000</b>	<b>21,768.81 24</b>	<b>21,768.81 24</b>	<b>6.2878</b>	<b>0.0000</b>	<b>21,926.00 65</b>

**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					
2023	11.5292	113.1354	98.7523	0.2260	2.8915	4.7857	7.6772	1.3496	4.4541	5.8037	0.0000	21,768.81 24	21,768.81 24	6.2878	0.0000	21,926.00 65
2024	6.5392	56.6338	67.4806	0.1353	2.5296	2.5812	5.1108	1.3105	2.4400	3.7506	0.0000	12,972.35 77	12,972.35 77	3.0861	0.0000	13,049.50 91
2025	43.2831	52.3682	69.0426	0.1167	0.0000	2.2550	2.2550	0.0000	2.1375	2.1375	0.0000	11,052.20 60	11,052.20 60	2.4245	0.0000	11,112.81 87
<b>Maximum</b>	<b>43.2831</b>	<b>113.1354</b>	<b>98.7523</b>	<b>0.2260</b>	<b>2.8915</b>	<b>4.7857</b>	<b>7.6772</b>	<b>1.3496</b>	<b>4.4541</b>	<b>5.8037</b>	<b>0.0000</b>	<b>21,768.81 24</b>	<b>21,768.81 24</b>	<b>6.2878</b>	<b>0.0000</b>	<b>21,926.00 65</b>



Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	16.1052	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728	0.0000	88.7555	88.7555	0.0855	0.0000	90.8935
Energy	0.2521	2.1562	0.9326	0.0138		0.1742	0.1742		0.1742	0.1742		2,749.8586	2,749.8586	0.0527	0.0504	2,766.1997
Mobile	8.4799	8.5653	86.0893	0.1917	20.0291	0.1360	20.1651	5.3352	0.1263	5.4614		19,545.1396	19,545.1396	1.2734	0.7836	19,810.4815
<b>Total</b>	<b>24.8372</b>	<b>11.2888</b>	<b>136.2736</b>	<b>0.2081</b>	<b>20.0291</b>	<b>0.5829</b>	<b>20.6120</b>	<b>5.3352</b>	<b>0.5732</b>	<b>5.9084</b>	<b>0.0000</b>	<b>22,383.7537</b>	<b>22,383.7537</b>	<b>1.4116</b>	<b>0.8340</b>	<b>22,667.5746</b>

**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	16.1052	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728	0.0000	88.7555	88.7555	0.0855	0.0000	90.8935
Energy	0.2521	2.1562	0.9326	0.0138		0.1742	0.1742		0.1742	0.1742		2,749.8586	2,749.8586	0.0527	0.0504	2,766.1997
Mobile	8.4799	8.5653	86.0893	0.1917	20.0291	0.1360	20.1651	5.3352	0.1263	5.4614		19,545.1396	19,545.1396	1.2734	0.7836	19,810.4815
<b>Total</b>	<b>24.8372</b>	<b>11.2888</b>	<b>136.2736</b>	<b>0.2081</b>	<b>20.0291</b>	<b>0.5829</b>	<b>20.6120</b>	<b>5.3352</b>	<b>0.5732</b>	<b>5.9084</b>	<b>0.0000</b>	<b>22,383.7537</b>	<b>22,383.7537</b>	<b>1.4116</b>	<b>0.8340</b>	<b>22,667.5746</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/19/2023	5	14	
2	Site Preparation	Site Preparation	1/13/2023	2/1/2023	5	14	
3	Grading	Grading	2/4/2023	11/1/2023	5	193	
4	Drainage/Utilities/Sub-grade	Trenching	6/16/2023	1/2/2024	5	143	
5	Foundations/Concrete Pour	Grading	1/2/2024	4/29/2024	5	85	
6	Building Construction	Building Construction	4/30/2024	11/1/2025	5	394	
7	Architectural Coating	Architectural Coating	7/26/2025	12/31/2025	5	114	
8	Paving	Paving	8/23/2025	10/15/2025	5	38	

**Acres of Grading (Site Preparation Phase): 14**

**Acres of Grading (Grading Phase): 253.31**

**Acres of Paving: 8.72**

**Residential Indoor: 1,282,036; Residential Outdoor: 427,345; Non-Residential Indoor: 23,246; Non-Residential Outdoor: 7,749; Striped Parking Area: 22,584 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	8.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Demolition	Dumpers/Tenders	1	8.00	16	0.38
Demolition	Excavators	2	8.00	158	0.38
Demolition	Forklifts	1	8.00	89	0.20
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Demolition	Rubber Tired Loaders	2	8.00	203	0.36
Demolition	Skid Steer Loaders	2	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Welders	1	8.00	46	0.45
Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Forklifts	1	8.00	89	0.20
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Rollers	1	8.00	80	0.38
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Sweepers/Scrubbers	1	8.00	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Dumpers/Tenders	1	8.00	16	0.38
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Pumps	1	8.00	84	0.74
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	6	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Drainage/Utilities/Sub-grade	Air Compressors	2	8.00	78	0.48
Drainage/Utilities/Sub-grade	Bore/Drill Rigs	1	8.00	221	0.50

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Drainage/Utilities/Sub-grade	Excavators	2	8.00	158	0.38
Drainage/Utilities/Sub-grade	Forklifts	1	8.00	89	0.20
Drainage/Utilities/Sub-grade	Off-Highway Trucks	1	8.00	402	0.38
Drainage/Utilities/Sub-grade	Plate Compactors	2	8.00	8	0.43
Drainage/Utilities/Sub-grade	Pumps	2	8.00	84	0.74
Drainage/Utilities/Sub-grade	Rough Terrain Forklifts	1	8.00	100	0.40
Drainage/Utilities/Sub-grade	Rubber Tired Loaders	2	8.00	203	0.36
Drainage/Utilities/Sub-grade	Skid Steer Loaders	1	8.00	65	0.37
Drainage/Utilities/Sub-grade	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Drainage/Utilities/Sub-grade	Trenchers	1	8.00	78	0.50
Foundations/Concrete Pour	Air Compressors	2	8.00	78	0.48
Foundations/Concrete Pour	Concrete/Industrial Saws	1	8.00	81	0.73
Foundations/Concrete Pour	Cranes	1	8.00	231	0.29
Foundations/Concrete Pour	Excavators	1	8.00	158	0.38
Foundations/Concrete Pour	Forklifts	1	8.00	89	0.20
Foundations/Concrete Pour	Plate Compactors	1	8.00	8	0.43
Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Foundations/Concrete Pour	Rubber Tired Dozers	1	8.00	247	0.40
Foundations/Concrete Pour	Sweepers/Scrubbers	1	8.00	64	0.46
Foundations/Concrete Pour	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Air Compressors	3	8.00	78	0.48
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Dumpers/Tenders	1	8.00	16	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	4	8.00	46	0.45
Architectural Coating	Air Compressors	2	8.00	78	0.48



Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Architectural Coating	Cranes	1	8.00	231	0.29
Architectural Coating	Forklifts	3	8.00	89	0.20
Architectural Coating	Rough Terrain Forklifts	1	8.00	100	0.40
Architectural Coating	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Air Compressors	1	8.00	78	0.48
Paving	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Sweepers/Scrubbers	1	8.00	64	0.46
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	15	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	9	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	17	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage/Utilities/Sub-grade	18	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Foundations/Concrete Pour	12	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	16	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	11	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 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					
Fugitive Dust					2.6015	0.0000	2.6015	0.3939	0.0000	0.3939			0.0000			0.0000
Off-Road	3.3250	26.9257	33.5293	0.0685		1.1774	1.1774		1.1192	1.1192		6,544.2562	6,544.2562	1.6224		6,584.8149
<b>Total</b>	<b>3.3250</b>	<b>26.9257</b>	<b>33.5293</b>	<b>0.0685</b>	<b>2.6015</b>	<b>1.1774</b>	<b>3.7789</b>	<b>0.3939</b>	<b>1.1192</b>	<b>1.5131</b>		<b>6,544.2562</b>	<b>6,544.2562</b>	<b>1.6224</b>		<b>6,584.8149</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0146	0.0000	1.0146	0.1536	0.0000	0.1536			0.0000			0.0000
Off-Road	3.3250	26.9257	33.5293	0.0685		1.1774	1.1774		1.1192	1.1192	0.0000	6,544.256 2	6,544.256 2	1.6224		6,584.814 9
<b>Total</b>	<b>3.3250</b>	<b>26.9257</b>	<b>33.5293</b>	<b>0.0685</b>	<b>1.0146</b>	<b>1.1774</b>	<b>2.1920</b>	<b>0.1536</b>	<b>1.1192</b>	<b>1.2728</b>	<b>0.0000</b>	<b>6,544.256 2</b>	<b>6,544.256 2</b>	<b>1.6224</b>		<b>6,584.814 9</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 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					
Fugitive Dust					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	2.5496	23.7662	23.1249	0.0528		1.0327	1.0327		0.9604	0.9604		5,098.6217	5,098.6217	1.4865		5,135.7847
<b>Total</b>	<b>2.5496</b>	<b>23.7662</b>	<b>23.1249</b>	<b>0.0528</b>	<b>1.0605</b>	<b>1.0327</b>	<b>2.0932</b>	<b>0.1145</b>	<b>0.9604</b>	<b>1.0749</b>		<b>5,098.6217</b>	<b>5,098.6217</b>	<b>1.4865</b>		<b>5,135.7847</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4136	0.0000	0.4136	0.0447	0.0000	0.0447			0.0000			0.0000
Off-Road	2.5496	23.7662	23.1249	0.0528		1.0327	1.0327		0.9604	0.9604	0.0000	5,098.621 7	5,098.621 7	1.4865		5,135.784 7
<b>Total</b>	<b>2.5496</b>	<b>23.7662</b>	<b>23.1249</b>	<b>0.0528</b>	<b>0.4136</b>	<b>1.0327</b>	<b>1.4463</b>	<b>0.0447</b>	<b>0.9604</b>	<b>1.0050</b>	<b>0.0000</b>	<b>5,098.621 7</b>	<b>5,098.621 7</b>	<b>1.4865</b>		<b>5,135.784 7</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 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					
Fugitive Dust					7.4140	0.0000	7.4140	3.4605	0.0000	3.4605			0.0000			0.0000
Off-Road	7.7221	80.1101	59.3225	0.1417		3.2738	3.2738		3.0248	3.0248		13,683.95 77	13,683.95 77	4.2319		13,789.75 60
<b>Total</b>	<b>7.7221</b>	<b>80.1101</b>	<b>59.3225</b>	<b>0.1417</b>	<b>7.4140</b>	<b>3.2738</b>	<b>10.6878</b>	<b>3.4605</b>	<b>3.0248</b>	<b>6.4854</b>		<b>13,683.95 77</b>	<b>13,683.95 77</b>	<b>4.2319</b>		<b>13,789.75 60</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**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					2.8915	0.0000	2.8915	1.3496	0.0000	1.3496			0.0000			0.0000
Off-Road	7.7221	80.1101	59.3225	0.1417		3.2738	3.2738		3.0248	3.0248	0.0000	13,683.95 77	13,683.95 77	4.2319		13,789.75 60
<b>Total</b>	<b>7.7221</b>	<b>80.1101</b>	<b>59.3225</b>	<b>0.1417</b>	<b>2.8915</b>	<b>3.2738</b>	<b>6.1652</b>	<b>1.3496</b>	<b>3.0248</b>	<b>4.3744</b>	<b>0.0000</b>	<b>13,683.95 77</b>	<b>13,683.95 77</b>	<b>4.2319</b>		<b>13,789.75 60</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Drainage/Utilities/Sub-grade - 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	3.8070	33.0253	39.4298	0.0842		1.5120	1.5120		1.4292	1.4292		8,084.8547	8,084.8547	2.0558		8,136.2505
<b>Total</b>	<b>3.8070</b>	<b>33.0253</b>	<b>39.4298</b>	<b>0.0842</b>		<b>1.5120</b>	<b>1.5120</b>		<b>1.4292</b>	<b>1.4292</b>		<b>8,084.8547</b>	<b>8,084.8547</b>	<b>2.0558</b>		<b>8,136.2505</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Drainage/Utilities/Sub-grade - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.8070	33.0253	39.4298	0.0842		1.5120	1.5120		1.4292	1.4292	0.0000	8,084.8547	8,084.8547	2.0558		8,136.2505
<b>Total</b>	<b>3.8070</b>	<b>33.0253</b>	<b>39.4298</b>	<b>0.0842</b>		<b>1.5120</b>	<b>1.5120</b>		<b>1.4292</b>	<b>1.4292</b>	<b>0.0000</b>	<b>8,084.8547</b>	<b>8,084.8547</b>	<b>2.0558</b>		<b>8,136.2505</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Drainage/Utilities/Sub-grade - 2024**

**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	3.6368	30.7160	39.3745	0.0843		1.3632	1.3632		1.2875	1.2875		8,087.8566	8,087.8566	2.0520		8,139.1558
<b>Total</b>	<b>3.6368</b>	<b>30.7160</b>	<b>39.3745</b>	<b>0.0843</b>		<b>1.3632</b>	<b>1.3632</b>		<b>1.2875</b>	<b>1.2875</b>		<b>8,087.8566</b>	<b>8,087.8566</b>	<b>2.0520</b>		<b>8,139.1558</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Drainage/Utilities/Sub-grade - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6368	30.7160	39.3745	0.0843		1.3632	1.3632		1.2875	1.2875	0.0000	8,087.8566	8,087.8566	2.0520		8,139.1558
<b>Total</b>	<b>3.6368</b>	<b>30.7160</b>	<b>39.3745</b>	<b>0.0843</b>		<b>1.3632</b>	<b>1.3632</b>		<b>1.2875</b>	<b>1.2875</b>	<b>0.0000</b>	<b>8,087.8566</b>	<b>8,087.8566</b>	<b>2.0520</b>		<b>8,139.1558</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Foundations/Concrete Pour - 2024**

**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					6.4861	0.0000	6.4861	3.3603	0.0000	3.3603			0.0000			0.0000
Off-Road	2.9024	25.9179	28.1061	0.0510		1.2180	1.2180		1.1525	1.1525		4,884.501 2	4,884.501 2	1.0341		4,910.353 2
<b>Total</b>	<b>2.9024</b>	<b>25.9179</b>	<b>28.1061</b>	<b>0.0510</b>	<b>6.4861</b>	<b>1.2180</b>	<b>7.7040</b>	<b>3.3603</b>	<b>1.1525</b>	<b>4.5129</b>		<b>4,884.501 2</b>	<b>4,884.501 2</b>	<b>1.0341</b>		<b>4,910.353 2</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Foundations/Concrete Pour - 2024**

**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					2.5296	0.0000	2.5296	1.3105	0.0000	1.3105			0.0000			0.0000
Off-Road	2.9024	25.9179	28.1061	0.0510		1.2180	1.2180		1.1525	1.1525	0.0000	4,884.501 2	4,884.501 2	1.0341		4,910.353 2
<b>Total</b>	<b>2.9024</b>	<b>25.9179</b>	<b>28.1061</b>	<b>0.0510</b>	<b>2.5296</b>	<b>1.2180</b>	<b>3.7475</b>	<b>1.3105</b>	<b>1.1525</b>	<b>2.4631</b>	<b>0.0000</b>	<b>4,884.501 2</b>	<b>4,884.501 2</b>	<b>1.0341</b>		<b>4,910.353 2</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Building Construction - 2024**

**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	3.2608	24.9069	31.1799	0.0523		1.1104	1.1104		1.0759	1.0759		4,838.7759	4,838.7759	0.7298		4,857.0197
<b>Total</b>	<b>3.2608</b>	<b>24.9069</b>	<b>31.1799</b>	<b>0.0523</b>		<b>1.1104</b>	<b>1.1104</b>		<b>1.0759</b>	<b>1.0759</b>		<b>4,838.7759</b>	<b>4,838.7759</b>	<b>0.7298</b>		<b>4,857.0197</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Building Construction - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.2608	24.9069	31.1799	0.0523		1.1104	1.1104		1.0759	1.0759	0.0000	4,838.7759	4,838.7759	0.7298		4,857.0197
<b>Total</b>	<b>3.2608</b>	<b>24.9069</b>	<b>31.1799</b>	<b>0.0523</b>		<b>1.1104</b>	<b>1.1104</b>		<b>1.0759</b>	<b>1.0759</b>	<b>0.0000</b>	<b>4,838.7759</b>	<b>4,838.7759</b>	<b>0.7298</b>		<b>4,857.0197</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Building Construction - 2025**

**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	3.0550	23.4040	31.0512	0.0523		0.9548	0.9548		0.9249	0.9249		4,839.374 1	4,839.374 1	0.7178		4,857.320 2
<b>Total</b>	<b>3.0550</b>	<b>23.4040</b>	<b>31.0512</b>	<b>0.0523</b>		<b>0.9548</b>	<b>0.9548</b>		<b>0.9249</b>	<b>0.9249</b>		<b>4,839.374</b> 1	<b>4,839.374</b> 1	<b>0.7178</b>		<b>4,857.320</b> 2

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Building Construction - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0550	23.4040	31.0512	0.0523		0.9548	0.9548		0.9249	0.9249	0.0000	4,839.374 1	4,839.374 1	0.7178		4,857.320 2
<b>Total</b>	<b>3.0550</b>	<b>23.4040</b>	<b>31.0512</b>	<b>0.0523</b>		<b>0.9548</b>	<b>0.9548</b>		<b>0.9249</b>	<b>0.9249</b>	<b>0.0000</b>	<b>4,839.374</b> 1	<b>4,839.374</b> 1	<b>0.7178</b>		<b>4,857.320</b> 2

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.8 Architectural Coating - 2025**

**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	36.9283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.2582	11.2977	14.4773	0.0249		0.4936	0.4936		0.4651	0.4651		2,389.220 2	2,389.220 2	0.5709		2,403.493 4
<b>Total</b>	<b>38.1865</b>	<b>11.2977</b>	<b>14.4773</b>	<b>0.0249</b>		<b>0.4936</b>	<b>0.4936</b>		<b>0.4651</b>	<b>0.4651</b>		<b>2,389.220 2</b>	<b>2,389.220 2</b>	<b>0.5709</b>		<b>2,403.493 4</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.8 Architectural Coating - 2025**

**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	36.9283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.2582	11.2977	14.4773	0.0249		0.4936	0.4936		0.4651	0.4651	0.0000	2,389.220 2	2,389.220 2	0.5709		2,403.493 4
<b>Total</b>	<b>38.1865</b>	<b>11.2977</b>	<b>14.4773</b>	<b>0.0249</b>		<b>0.4936</b>	<b>0.4936</b>		<b>0.4651</b>	<b>0.4651</b>	<b>0.0000</b>	<b>2,389.220 2</b>	<b>2,389.220 2</b>	<b>0.5709</b>		<b>2,403.493 4</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.9 Paving - 2025**

**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	1.8437	17.6665	23.5141	0.0396		0.8065	0.8065		0.7475	0.7475		3,823.6117	3,823.6117	1.1357		3,852.0051
Paving	0.1979					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0416</b>	<b>17.6665</b>	<b>23.5141</b>	<b>0.0396</b>		<b>0.8065</b>	<b>0.8065</b>		<b>0.7475</b>	<b>0.7475</b>		<b>3,823.6117</b>	<b>3,823.6117</b>	<b>1.1357</b>		<b>3,852.0051</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.9 Paving - 2025**

**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	1.8437	17.6665	23.5141	0.0396		0.8065	0.8065		0.7475	0.7475	0.0000	3,823.6117	3,823.6117	1.1357		3,852.0051
Paving	0.1979					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0416</b>	<b>17.6665</b>	<b>23.5141</b>	<b>0.0396</b>		<b>0.8065</b>	<b>0.8065</b>		<b>0.7475</b>	<b>0.7475</b>	<b>0.0000</b>	<b>3,823.6117</b>	<b>3,823.6117</b>	<b>1.1357</b>		<b>3,852.0051</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.4799	8.5653	86.0893	0.1917	20.0291	0.1360	20.1651	5.3352	0.1263	5.4614		19,545.13 96	19,545.13 96	1.2734	0.7836	19,810.48 15
Unmitigated	8.4799	8.5653	86.0893	0.1917	20.0291	0.1360	20.1651	5.3352	0.1263	5.4614		19,545.13 96	19,545.13 96	1.2734	0.7836	19,810.48 15

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,061.76	1,860.89	1550.11	6,697,520	6,697,520
City Park	11.70	29.40	32.85	49,638	49,638
Enclosed Parking Structure	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	86.78	19.69	6.24	211,625	211,625
Health Club	79.03	50.09	64.15	155,641	155,641
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	59.66	18.84	28.15	120,132	120,132
Retirement Community	520.80	440.51	423.15	1,692,789	1,692,789
<b>Total</b>	<b>2,819.73</b>	<b>2,419.42</b>	<b>2,104.65</b>	<b>8,927,345</b>	<b>8,927,345</b>

**4.3 Trip Type Information**

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	Miles			Trip %			Trip Purpose %		
	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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Retirement Community	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
City Park	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Enclosed Parking Structure	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
General Office Building	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Health Club	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Parking Lot	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Recreational Swimming Pool	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Retirement Community	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2521	2.1562	0.9326	0.0138		0.1742	0.1742		0.1742	0.1742		2,749.8586	2,749.8586	0.0527	0.0504	2,766.1997
NaturalGas Unmitigated	0.2521	2.1562	0.9326	0.0138		0.1742	0.1742		0.1742	0.1742		2,749.8586	2,749.8586	0.0527	0.0504	2,766.1997



Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
Apartments Mid Rise	13567.8	0.1463	1.2504	0.5321	7.9800e-003		0.1011	0.1011		0.1011	0.1011		1,596.2087	1,596.2087	0.0306	0.0293	1,605.6942
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	251.79	2.7200e-003	0.0247	0.0207	1.5000e-004		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003		29.6224	29.6224	5.7000e-004	5.4000e-004	29.7984
Health Club	118.093	1.2700e-003	0.0116	9.7300e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		13.8933	13.8933	2.7000e-004	2.5000e-004	13.9759
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	9436.14	0.1018	0.8696	0.3700	5.5500e-003		0.0703	0.0703		0.0703	0.0703		1,110.1342	1,110.1342	0.0213	0.0204	1,116.7312
<b>Total</b>		<b>0.2521</b>	<b>2.1562</b>	<b>0.9326</b>	<b>0.0138</b>		<b>0.1742</b>	<b>0.1742</b>		<b>0.1742</b>	<b>0.1742</b>		<b>2,749.8586</b>	<b>2,749.8586</b>	<b>0.0527</b>	<b>0.0504</b>	<b>2,766.1997</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
Apartments Mid Rise	13.5678	0.1463	1.2504	0.5321	7.9800e-003		0.1011	0.1011		0.1011	0.1011		1,596.2087	1,596.2087	0.0306	0.0293	1,605.6942
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.25179	2.7200e-003	0.0247	0.0207	1.5000e-004		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003		29.6224	29.6224	5.7000e-004	5.4000e-004	29.7984
Health Club	0.118093	1.2700e-003	0.0116	9.7300e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		13.8933	13.8933	2.7000e-004	2.5000e-004	13.9759
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	9.43614	0.1018	0.8696	0.3700	5.5500e-003		0.0703	0.0703		0.0703	0.0703		1,110.1342	1,110.1342	0.0213	0.0204	1,116.7312
<b>Total</b>		<b>0.2521</b>	<b>2.1562</b>	<b>0.9326</b>	<b>0.0138</b>		<b>0.1742</b>	<b>0.1742</b>		<b>0.1742</b>	<b>0.1742</b>		<b>2,749.8586</b>	<b>2,749.8586</b>	<b>0.0527</b>	<b>0.0504</b>	<b>2,766.1997</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	16.1052	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728	0.0000	88.7555	88.7555	0.0855	0.0000	90.8935
Unmitigated	16.1052	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728	0.0000	88.7555	88.7555	0.0855	0.0000	90.8935

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.4646					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	1.4872	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728		88.7555	88.7555	0.0855		90.8935
<b>Total</b>	<b>16.1052</b>	<b>0.5672</b>	<b>49.2518</b>	<b>2.6000e-003</b>		<b>0.2728</b>	<b>0.2728</b>		<b>0.2728</b>	<b>0.2728</b>	<b>0.0000</b>	<b>88.7555</b>	<b>88.7555</b>	<b>0.0855</b>	<b>0.0000</b>	<b>90.8935</b>

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.4646					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	1.4872	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728		88.7555	88.7555	0.0855		90.8935
<b>Total</b>	<b>16.1052</b>	<b>0.5672</b>	<b>49.2518</b>	<b>2.6000e-003</b>		<b>0.2728</b>	<b>0.2728</b>		<b>0.2728</b>	<b>0.2728</b>	<b>0.0000</b>	<b>88.7555</b>	<b>88.7555</b>	<b>0.0855</b>	<b>0.0000</b>	<b>90.8935</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Wiley Canyon - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Wiley Canyon**

**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.91	1000sqft	0.20	8,914.00	0
Enclosed Parking Structure	602.00	Space	5.42	240,800.00	0
Enclosed Parking Structure	48.00	Space	0.43	19,200.00	0
Parking Lot	143.00	Space	1.29	57,200.00	0
Parking Lot	176.00	Space	1.58	70,400.00	0
City Park	15.00	Acre	15.00	653,400.00	0
Health Club	2.40	1000sqft	0.06	2,400.00	0
Recreational Swimming Pool	2.07	1000sqft	0.05	2,070.00	0
Apartments Mid Rise	379.00	Dwelling Unit	8.79	382,972.00	1084
Retirement Community	217.00	Dwelling Unit	6.36	277,108.00	621

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - See SCE EF Forecast

Land Use - See Construction Assumptions

Construction Phase - See Construction Assumptions

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Equipment
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Constructions Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Off-road Equipment - See Construction Assumptions
- Trips and VMT - Trips and VMT calculated outside of CalEEMod
- Demolition -
- Grading -
- Woodstoves - No Wood Stoves or fire places
- Energy Use -
- Construction Off-road Equipment Mitigation - Mitigation
- Water Mitigation -
- Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,657.00	7,749.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,971.00	23,246.00
tblArchitecturalCoating	ConstArea_Parking	23,256.00	22,584.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	445,554.00	427,345.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,336,662.00	1,282,036.00
tblAreaCoating	Area_Nonresidential_Exterior	5657	7749
tblAreaCoating	Area_Nonresidential_Interior	16971	23246
tblAreaCoating	Area_Parking	23256	22584
tblAreaCoating	Area_Residential_Exterior	445554	427345
tblAreaCoating	Area_Residential_Interior	1336662	1282036
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	55.00	114.00
tblConstructionPhase	NumDays	740.00	394.00
tblConstructionPhase	NumDays	50.00	14.00
tblConstructionPhase	NumDays	75.00	193.00
tblConstructionPhase	NumDays	75.00	85.00
tblConstructionPhase	NumDays	55.00	38.00
tblConstructionPhase	NumDays	30.00	14.00
tblFireplaces	FireplaceDayYear	25.00	0.00



Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	322.15	0.00
tblFireplaces	NumberGas	184.45	0.00
tblFireplaces	NumberNoFireplace	37.90	0.00
tblFireplaces	NumberNoFireplace	21.70	0.00
tblFireplaces	NumberWood	18.95	0.00
tblFireplaces	NumberWood	10.85	0.00
tblGrading	AcresOfGrading	1,447.50	253.31
tblGrading	AcresOfGrading	42.50	37.19
tblLandUse	LandUseSquareFeet	8,910.00	8,914.00
tblLandUse	LandUseSquareFeet	379,000.00	382,972.00
tblLandUse	LandUseSquareFeet	217,000.00	277,108.00
tblLandUse	LotAcreage	9.97	8.79
tblLandUse	LotAcreage	43.40	6.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	174.34	172.50
tblSolidWaste	SolidWasteGenerationRate	8.29	10.13
tblSolidWaste	SolidWasteGenerationRate	13.68	14.48
tblSolidWaste	SolidWasteGenerationRate	99.82	99.36
tblTripsAndVMT	HaulingTripNumber	168.00	0.00
tblTripsAndVMT	VendorTripNumber	237.00	0.00
tblTripsAndVMT	WorkerTripNumber	38.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	0.00
tblTripsAndVMT	WorkerTripNumber	43.00	0.00
tblTripsAndVMT	WorkerTripNumber	45.00	0.00
tblTripsAndVMT	WorkerTripNumber	30.00	0.00
tblTripsAndVMT	WorkerTripNumber	871.00	0.00
tblTripsAndVMT	WorkerTripNumber	174.00	0.00
tblTripsAndVMT	WorkerTripNumber	28.00	0.00
tblWater	IndoorWaterUseRate	24,693,375.71	24,432,759.61
tblWater	IndoorWaterUseRate	1,583,607.69	1,935,520.52
tblWater	IndoorWaterUseRate	141,943.55	150,223.59
tblWater	IndoorWaterUseRate	14,138,423.56	14,073,269.53
tblWater	OutdoorWaterUseRate	15,567,562.95	15,403,261.49
tblWater	OutdoorWaterUseRate	970,598.26	1,186,286.77
tblWater	OutdoorWaterUseRate	86,997.66	92,072.52
tblWater	OutdoorWaterUseRate	8,913,353.98	8,872,278.62
tblWoodstoves	NumberCatalytic	18.95	0.00
tblWoodstoves	NumberCatalytic	10.85	0.00
tblWoodstoves	NumberNoncatalytic	18.95	0.00
tblWoodstoves	NumberNoncatalytic	10.85	0.00

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

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Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
2023	11.5292	113.1354	98.7523	0.2260	7.4140	4.7857	12.1997	3.4605	4.4541	7.9146	0.0000	21,768.81 24	21,768.81 24	6.2878	0.0000	21,926.00 65
2024	6.5392	56.6338	67.4806	0.1353	6.4861	2.5812	9.0673	3.3603	2.4400	5.8004	0.0000	12,972.35 77	12,972.35 77	3.0861	0.0000	13,049.50 91
2025	43.2831	52.3682	69.0426	0.1167	0.0000	2.2550	2.2550	0.0000	2.1375	2.1375	0.0000	11,052.20 60	11,052.20 60	2.4245	0.0000	11,112.81 87
<b>Maximum</b>	<b>43.2831</b>	<b>113.1354</b>	<b>98.7523</b>	<b>0.2260</b>	<b>7.4140</b>	<b>4.7857</b>	<b>12.1997</b>	<b>3.4605</b>	<b>4.4541</b>	<b>7.9146</b>	<b>0.0000</b>	<b>21,768.81 24</b>	<b>21,768.81 24</b>	<b>6.2878</b>	<b>0.0000</b>	<b>21,926.00 65</b>

**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					
2023	11.5292	113.1354	98.7523	0.2260	2.8915	4.7857	7.6772	1.3496	4.4541	5.8037	0.0000	21,768.81 24	21,768.81 24	6.2878	0.0000	21,926.00 65
2024	6.5392	56.6338	67.4806	0.1353	2.5296	2.5812	5.1108	1.3105	2.4400	3.7506	0.0000	12,972.35 77	12,972.35 77	3.0861	0.0000	13,049.50 91
2025	43.2831	52.3682	69.0426	0.1167	0.0000	2.2550	2.2550	0.0000	2.1375	2.1375	0.0000	11,052.20 60	11,052.20 60	2.4245	0.0000	11,112.81 87
<b>Maximum</b>	<b>43.2831</b>	<b>113.1354</b>	<b>98.7523</b>	<b>0.2260</b>	<b>2.8915</b>	<b>4.7857</b>	<b>7.6772</b>	<b>1.3496</b>	<b>4.4541</b>	<b>5.8037</b>	<b>0.0000</b>	<b>21,768.81 24</b>	<b>21,768.81 24</b>	<b>6.2878</b>	<b>0.0000</b>	<b>21,926.00 65</b>



Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	16.1052	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728	0.0000	88.7555	88.7555	0.0855	0.0000	90.8935
Energy	0.2521	2.1562	0.9326	0.0138		0.1742	0.1742		0.1742	0.1742		2,749.8586	2,749.8586	0.0527	0.0504	2,766.1997
Mobile	8.3302	9.2492	84.2141	0.1835	20.0291	0.1360	20.1652	5.3352	0.1263	5.4615		18,717.6524	18,717.6524	1.3089	0.8181	18,994.1712
<b>Total</b>	<b>24.6874</b>	<b>11.9726</b>	<b>134.3984</b>	<b>0.1999</b>	<b>20.0291</b>	<b>0.5830</b>	<b>20.6121</b>	<b>5.3352</b>	<b>0.5733</b>	<b>5.9084</b>	<b>0.0000</b>	<b>21,556.2665</b>	<b>21,556.2665</b>	<b>1.4471</b>	<b>0.8685</b>	<b>21,851.2643</b>

**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	16.1052	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728	0.0000	88.7555	88.7555	0.0855	0.0000	90.8935
Energy	0.2521	2.1562	0.9326	0.0138		0.1742	0.1742		0.1742	0.1742		2,749.8586	2,749.8586	0.0527	0.0504	2,766.1997
Mobile	8.3302	9.2492	84.2141	0.1835	20.0291	0.1360	20.1652	5.3352	0.1263	5.4615		18,717.6524	18,717.6524	1.3089	0.8181	18,994.1712
<b>Total</b>	<b>24.6874</b>	<b>11.9726</b>	<b>134.3984</b>	<b>0.1999</b>	<b>20.0291</b>	<b>0.5830</b>	<b>20.6121</b>	<b>5.3352</b>	<b>0.5733</b>	<b>5.9084</b>	<b>0.0000</b>	<b>21,556.2665</b>	<b>21,556.2665</b>	<b>1.4471</b>	<b>0.8685</b>	<b>21,851.2643</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/19/2023	5	14	
2	Site Preparation	Site Preparation	1/13/2023	2/1/2023	5	14	
3	Grading	Grading	2/4/2023	11/1/2023	5	193	
4	Drainage/Utilities/Sub-grade	Trenching	6/16/2023	1/2/2024	5	143	
5	Foundations/Concrete Pour	Grading	1/2/2024	4/29/2024	5	85	
6	Building Construction	Building Construction	4/30/2024	11/1/2025	5	394	
7	Architectural Coating	Architectural Coating	7/26/2025	12/31/2025	5	114	
8	Paving	Paving	8/23/2025	10/15/2025	5	38	

**Acres of Grading (Site Preparation Phase): 14**

**Acres of Grading (Grading Phase): 253.31**

**Acres of Paving: 8.72**

**Residential Indoor: 1,282,036; Residential Outdoor: 427,345; Non-Residential Indoor: 23,246; Non-Residential Outdoor: 7,749; Striped Parking Area: 22,584 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	8.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Demolition	Dumpers/Tenders	1	8.00	16	0.38
Demolition	Excavators	2	8.00	158	0.38
Demolition	Forklifts	1	8.00	89	0.20
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Demolition	Rubber Tired Loaders	2	8.00	203	0.36
Demolition	Skid Steer Loaders	2	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Welders	1	8.00	46	0.45
Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Forklifts	1	8.00	89	0.20
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Rollers	1	8.00	80	0.38
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Sweepers/Scrubbers	1	8.00	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Dumpers/Tenders	1	8.00	16	0.38
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Pumps	1	8.00	84	0.74
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	6	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Drainage/Utilities/Sub-grade	Air Compressors	2	8.00	78	0.48
Drainage/Utilities/Sub-grade	Bore/Drill Rigs	1	8.00	221	0.50



Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Drainage/Utilities/Sub-grade	Excavators	2	8.00	158	0.38
Drainage/Utilities/Sub-grade	Forklifts	1	8.00	89	0.20
Drainage/Utilities/Sub-grade	Off-Highway Trucks	1	8.00	402	0.38
Drainage/Utilities/Sub-grade	Plate Compactors	2	8.00	8	0.43
Drainage/Utilities/Sub-grade	Pumps	2	8.00	84	0.74
Drainage/Utilities/Sub-grade	Rough Terrain Forklifts	1	8.00	100	0.40
Drainage/Utilities/Sub-grade	Rubber Tired Loaders	2	8.00	203	0.36
Drainage/Utilities/Sub-grade	Skid Steer Loaders	1	8.00	65	0.37
Drainage/Utilities/Sub-grade	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Drainage/Utilities/Sub-grade	Trenchers	1	8.00	78	0.50
Foundations/Concrete Pour	Air Compressors	2	8.00	78	0.48
Foundations/Concrete Pour	Concrete/Industrial Saws	1	8.00	81	0.73
Foundations/Concrete Pour	Cranes	1	8.00	231	0.29
Foundations/Concrete Pour	Excavators	1	8.00	158	0.38
Foundations/Concrete Pour	Forklifts	1	8.00	89	0.20
Foundations/Concrete Pour	Plate Compactors	1	8.00	8	0.43
Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Foundations/Concrete Pour	Rubber Tired Dozers	1	8.00	247	0.40
Foundations/Concrete Pour	Sweepers/Scrubbers	1	8.00	64	0.46
Foundations/Concrete Pour	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Air Compressors	3	8.00	78	0.48
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Dumpers/Tenders	1	8.00	16	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	4	8.00	46	0.45
Architectural Coating	Air Compressors	2	8.00	78	0.48

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Architectural Coating	Cranes	1	8.00	231	0.29
Architectural Coating	Forklifts	3	8.00	89	0.20
Architectural Coating	Rough Terrain Forklifts	1	8.00	100	0.40
Architectural Coating	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Air Compressors	1	8.00	78	0.48
Paving	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Sweepers/Scrubbers	1	8.00	64	0.46
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	15	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	9	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	17	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage/Utilities/Sub-grade	18	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Foundations/Concrete Pour	12	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	16	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	11	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 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					
Fugitive Dust					2.6015	0.0000	2.6015	0.3939	0.0000	0.3939			0.0000			0.0000
Off-Road	3.3250	26.9257	33.5293	0.0685		1.1774	1.1774		1.1192	1.1192		6,544.256 2	6,544.256 2	1.6224		6,584.814 9
<b>Total</b>	<b>3.3250</b>	<b>26.9257</b>	<b>33.5293</b>	<b>0.0685</b>	<b>2.6015</b>	<b>1.1774</b>	<b>3.7789</b>	<b>0.3939</b>	<b>1.1192</b>	<b>1.5131</b>		<b>6,544.256 2</b>	<b>6,544.256 2</b>	<b>1.6224</b>		<b>6,584.814 9</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0146	0.0000	1.0146	0.1536	0.0000	0.1536			0.0000			0.0000
Off-Road	3.3250	26.9257	33.5293	0.0685		1.1774	1.1774		1.1192	1.1192	0.0000	6,544.256 2	6,544.256 2	1.6224		6,584.814 9
<b>Total</b>	<b>3.3250</b>	<b>26.9257</b>	<b>33.5293</b>	<b>0.0685</b>	<b>1.0146</b>	<b>1.1774</b>	<b>2.1920</b>	<b>0.1536</b>	<b>1.1192</b>	<b>1.2728</b>	<b>0.0000</b>	<b>6,544.256 2</b>	<b>6,544.256 2</b>	<b>1.6224</b>		<b>6,584.814 9</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 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					
Fugitive Dust					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	2.5496	23.7662	23.1249	0.0528		1.0327	1.0327		0.9604	0.9604		5,098.6217	5,098.6217	1.4865		5,135.7847
<b>Total</b>	<b>2.5496</b>	<b>23.7662</b>	<b>23.1249</b>	<b>0.0528</b>	<b>1.0605</b>	<b>1.0327</b>	<b>2.0932</b>	<b>0.1145</b>	<b>0.9604</b>	<b>1.0749</b>		<b>5,098.6217</b>	<b>5,098.6217</b>	<b>1.4865</b>		<b>5,135.7847</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4136	0.0000	0.4136	0.0447	0.0000	0.0447			0.0000			0.0000
Off-Road	2.5496	23.7662	23.1249	0.0528		1.0327	1.0327		0.9604	0.9604	0.0000	5,098.621 7	5,098.621 7	1.4865		5,135.784 7
<b>Total</b>	<b>2.5496</b>	<b>23.7662</b>	<b>23.1249</b>	<b>0.0528</b>	<b>0.4136</b>	<b>1.0327</b>	<b>1.4463</b>	<b>0.0447</b>	<b>0.9604</b>	<b>1.0050</b>	<b>0.0000</b>	<b>5,098.621 7</b>	<b>5,098.621 7</b>	<b>1.4865</b>		<b>5,135.784 7</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 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					
Fugitive Dust					7.4140	0.0000	7.4140	3.4605	0.0000	3.4605			0.0000			0.0000
Off-Road	7.7221	80.1101	59.3225	0.1417		3.2738	3.2738		3.0248	3.0248		13,683.95 77	13,683.95 77	4.2319		13,789.75 60
<b>Total</b>	<b>7.7221</b>	<b>80.1101</b>	<b>59.3225</b>	<b>0.1417</b>	<b>7.4140</b>	<b>3.2738</b>	<b>10.6878</b>	<b>3.4605</b>	<b>3.0248</b>	<b>6.4854</b>		<b>13,683.95 77</b>	<b>13,683.95 77</b>	<b>4.2319</b>		<b>13,789.75 60</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**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					2.8915	0.0000	2.8915	1.3496	0.0000	1.3496			0.0000			0.0000
Off-Road	7.7221	80.1101	59.3225	0.1417		3.2738	3.2738		3.0248	3.0248	0.0000	13,683.95 77	13,683.95 77	4.2319		13,789.75 60
<b>Total</b>	<b>7.7221</b>	<b>80.1101</b>	<b>59.3225</b>	<b>0.1417</b>	<b>2.8915</b>	<b>3.2738</b>	<b>6.1652</b>	<b>1.3496</b>	<b>3.0248</b>	<b>4.3744</b>	<b>0.0000</b>	<b>13,683.95 77</b>	<b>13,683.95 77</b>	<b>4.2319</b>		<b>13,789.75 60</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Drainage/Utilities/Sub-grade - 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	3.8070	33.0253	39.4298	0.0842		1.5120	1.5120		1.4292	1.4292		8,084.8547	8,084.8547	2.0558		8,136.2505
<b>Total</b>	<b>3.8070</b>	<b>33.0253</b>	<b>39.4298</b>	<b>0.0842</b>		<b>1.5120</b>	<b>1.5120</b>		<b>1.4292</b>	<b>1.4292</b>		<b>8,084.8547</b>	<b>8,084.8547</b>	<b>2.0558</b>		<b>8,136.2505</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Drainage/Utilities/Sub-grade - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.8070	33.0253	39.4298	0.0842		1.5120	1.5120		1.4292	1.4292	0.0000	8,084.8547	8,084.8547	2.0558		8,136.2505
<b>Total</b>	<b>3.8070</b>	<b>33.0253</b>	<b>39.4298</b>	<b>0.0842</b>		<b>1.5120</b>	<b>1.5120</b>		<b>1.4292</b>	<b>1.4292</b>	<b>0.0000</b>	<b>8,084.8547</b>	<b>8,084.8547</b>	<b>2.0558</b>		<b>8,136.2505</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Drainage/Utilities/Sub-grade - 2024**

**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	3.6368	30.7160	39.3745	0.0843		1.3632	1.3632		1.2875	1.2875		8,087.8566	8,087.8566	2.0520		8,139.1558
<b>Total</b>	<b>3.6368</b>	<b>30.7160</b>	<b>39.3745</b>	<b>0.0843</b>		<b>1.3632</b>	<b>1.3632</b>		<b>1.2875</b>	<b>1.2875</b>		<b>8,087.8566</b>	<b>8,087.8566</b>	<b>2.0520</b>		<b>8,139.1558</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Drainage/Utilities/Sub-grade - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6368	30.7160	39.3745	0.0843		1.3632	1.3632		1.2875	1.2875	0.0000	8,087.8566	8,087.8566	2.0520		8,139.1558
<b>Total</b>	<b>3.6368</b>	<b>30.7160</b>	<b>39.3745</b>	<b>0.0843</b>		<b>1.3632</b>	<b>1.3632</b>		<b>1.2875</b>	<b>1.2875</b>	<b>0.0000</b>	<b>8,087.8566</b>	<b>8,087.8566</b>	<b>2.0520</b>		<b>8,139.1558</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Foundations/Concrete Pour - 2024**

**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					6.4861	0.0000	6.4861	3.3603	0.0000	3.3603			0.0000			0.0000
Off-Road	2.9024	25.9179	28.1061	0.0510		1.2180	1.2180		1.1525	1.1525		4,884.501 2	4,884.501 2	1.0341		4,910.353 2
<b>Total</b>	<b>2.9024</b>	<b>25.9179</b>	<b>28.1061</b>	<b>0.0510</b>	<b>6.4861</b>	<b>1.2180</b>	<b>7.7040</b>	<b>3.3603</b>	<b>1.1525</b>	<b>4.5129</b>		<b>4,884.501 2</b>	<b>4,884.501 2</b>	<b>1.0341</b>		<b>4,910.353 2</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Foundations/Concrete Pour - 2024**

**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					2.5296	0.0000	2.5296	1.3105	0.0000	1.3105			0.0000			0.0000
Off-Road	2.9024	25.9179	28.1061	0.0510		1.2180	1.2180		1.1525	1.1525	0.0000	4,884.501 2	4,884.501 2	1.0341		4,910.353 2
<b>Total</b>	<b>2.9024</b>	<b>25.9179</b>	<b>28.1061</b>	<b>0.0510</b>	<b>2.5296</b>	<b>1.2180</b>	<b>3.7475</b>	<b>1.3105</b>	<b>1.1525</b>	<b>2.4631</b>	<b>0.0000</b>	<b>4,884.501 2</b>	<b>4,884.501 2</b>	<b>1.0341</b>		<b>4,910.353 2</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Building Construction - 2024**

**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	3.2608	24.9069	31.1799	0.0523		1.1104	1.1104		1.0759	1.0759		4,838.7759	4,838.7759	0.7298		4,857.0197
<b>Total</b>	<b>3.2608</b>	<b>24.9069</b>	<b>31.1799</b>	<b>0.0523</b>		<b>1.1104</b>	<b>1.1104</b>		<b>1.0759</b>	<b>1.0759</b>		<b>4,838.7759</b>	<b>4,838.7759</b>	<b>0.7298</b>		<b>4,857.0197</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Building Construction - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.2608	24.9069	31.1799	0.0523		1.1104	1.1104		1.0759	1.0759	0.0000	4,838.775 9	4,838.775 9	0.7298		4,857.019 7
<b>Total</b>	<b>3.2608</b>	<b>24.9069</b>	<b>31.1799</b>	<b>0.0523</b>		<b>1.1104</b>	<b>1.1104</b>		<b>1.0759</b>	<b>1.0759</b>	<b>0.0000</b>	<b>4,838.775 9</b>	<b>4,838.775 9</b>	<b>0.7298</b>		<b>4,857.019 7</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Building Construction - 2025**

**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	3.0550	23.4040	31.0512	0.0523		0.9548	0.9548		0.9249	0.9249		4,839.374 1	4,839.374 1	0.7178		4,857.320 2
<b>Total</b>	<b>3.0550</b>	<b>23.4040</b>	<b>31.0512</b>	<b>0.0523</b>		<b>0.9548</b>	<b>0.9548</b>		<b>0.9249</b>	<b>0.9249</b>		<b>4,839.374 1</b>	<b>4,839.374 1</b>	<b>0.7178</b>		<b>4,857.320 2</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Building Construction - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0550	23.4040	31.0512	0.0523		0.9548	0.9548		0.9249	0.9249	0.0000	4,839.374 1	4,839.374 1	0.7178		4,857.320 2
<b>Total</b>	<b>3.0550</b>	<b>23.4040</b>	<b>31.0512</b>	<b>0.0523</b>		<b>0.9548</b>	<b>0.9548</b>		<b>0.9249</b>	<b>0.9249</b>	<b>0.0000</b>	<b>4,839.374</b> 1	<b>4,839.374</b> 1	<b>0.7178</b>		<b>4,857.320</b> 2

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.8 Architectural Coating - 2025**

**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	36.9283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.2582	11.2977	14.4773	0.0249		0.4936	0.4936		0.4651	0.4651		2,389.220 2	2,389.220 2	0.5709		2,403.493 4
<b>Total</b>	<b>38.1865</b>	<b>11.2977</b>	<b>14.4773</b>	<b>0.0249</b>		<b>0.4936</b>	<b>0.4936</b>		<b>0.4651</b>	<b>0.4651</b>		<b>2,389.220 2</b>	<b>2,389.220 2</b>	<b>0.5709</b>		<b>2,403.493 4</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.8 Architectural Coating - 2025**

**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	36.9283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.2582	11.2977	14.4773	0.0249		0.4936	0.4936		0.4651	0.4651	0.0000	2,389.220 2	2,389.220 2	0.5709		2,403.493 4
<b>Total</b>	<b>38.1865</b>	<b>11.2977</b>	<b>14.4773</b>	<b>0.0249</b>		<b>0.4936</b>	<b>0.4936</b>		<b>0.4651</b>	<b>0.4651</b>	<b>0.0000</b>	<b>2,389.220 2</b>	<b>2,389.220 2</b>	<b>0.5709</b>		<b>2,403.493 4</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.9 Paving - 2025**

**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	1.8437	17.6665	23.5141	0.0396		0.8065	0.8065		0.7475	0.7475		3,823.6117	3,823.6117	1.1357		3,852.0051
Paving	0.1979					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0416</b>	<b>17.6665</b>	<b>23.5141</b>	<b>0.0396</b>		<b>0.8065</b>	<b>0.8065</b>		<b>0.7475</b>	<b>0.7475</b>		<b>3,823.6117</b>	<b>3,823.6117</b>	<b>1.1357</b>		<b>3,852.0051</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.9 Paving - 2025**

**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	1.8437	17.6665	23.5141	0.0396		0.8065	0.8065		0.7475	0.7475	0.0000	3,823.6117	3,823.6117	1.1357		3,852.0051
Paving	0.1979					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0416</b>	<b>17.6665</b>	<b>23.5141</b>	<b>0.0396</b>		<b>0.8065</b>	<b>0.8065</b>		<b>0.7475</b>	<b>0.7475</b>	<b>0.0000</b>	<b>3,823.6117</b>	<b>3,823.6117</b>	<b>1.1357</b>		<b>3,852.0051</b>

**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	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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.3302	9.2492	84.2141	0.1835	20.0291	0.1360	20.1652	5.3352	0.1263	5.4615		18,717.65 24	18,717.65 24	1.3089	0.8181	18,994.17 12
Unmitigated	8.3302	9.2492	84.2141	0.1835	20.0291	0.1360	20.1652	5.3352	0.1263	5.4615		18,717.65 24	18,717.65 24	1.3089	0.8181	18,994.17 12

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,061.76	1,860.89	1550.11	6,697,520	6,697,520
City Park	11.70	29.40	32.85	49,638	49,638
Enclosed Parking Structure	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	86.78	19.69	6.24	211,625	211,625
Health Club	79.03	50.09	64.15	155,641	155,641
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	59.66	18.84	28.15	120,132	120,132
Retirement Community	520.80	440.51	423.15	1,692,789	1,692,789
<b>Total</b>	<b>2,819.73</b>	<b>2,419.42</b>	<b>2,104.65</b>	<b>8,927,345</b>	<b>8,927,345</b>

4.3 Trip Type Information

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	Miles			Trip %			Trip Purpose %		
	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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Retirement Community	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
City Park	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Enclosed Parking Structure	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
General Office Building	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Health Club	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Parking Lot	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Recreational Swimming Pool	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Retirement Community	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**



Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2521	2.1562	0.9326	0.0138		0.1742	0.1742		0.1742	0.1742		2,749.8586	2,749.8586	0.0527	0.0504	2,766.1997
NaturalGas Unmitigated	0.2521	2.1562	0.9326	0.0138		0.1742	0.1742		0.1742	0.1742		2,749.8586	2,749.8586	0.0527	0.0504	2,766.1997

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
Apartments Mid Rise	13567.8	0.1463	1.2504	0.5321	7.9800e-003		0.1011	0.1011		0.1011	0.1011		1,596.2087	1,596.2087	0.0306	0.0293	1,605.6942
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	251.79	2.7200e-003	0.0247	0.0207	1.5000e-004		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003		29.6224	29.6224	5.7000e-004	5.4000e-004	29.7984
Health Club	118.093	1.2700e-003	0.0116	9.7300e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		13.8933	13.8933	2.7000e-004	2.5000e-004	13.9759
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	9436.14	0.1018	0.8696	0.3700	5.5500e-003		0.0703	0.0703		0.0703	0.0703		1,110.1342	1,110.1342	0.0213	0.0204	1,116.7312
<b>Total</b>		<b>0.2521</b>	<b>2.1562</b>	<b>0.9326</b>	<b>0.0138</b>		<b>0.1742</b>	<b>0.1742</b>		<b>0.1742</b>	<b>0.1742</b>		<b>2,749.8586</b>	<b>2,749.8586</b>	<b>0.0527</b>	<b>0.0504</b>	<b>2,766.1997</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
Apartments Mid Rise	13.5678	0.1463	1.2504	0.5321	7.9800e-003		0.1011	0.1011		0.1011	0.1011		1,596.2087	1,596.2087	0.0306	0.0293	1,605.6942
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.25179	2.7200e-003	0.0247	0.0207	1.5000e-004		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003		29.6224	29.6224	5.7000e-004	5.4000e-004	29.7984
Health Club	0.118093	1.2700e-003	0.0116	9.7300e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		13.8933	13.8933	2.7000e-004	2.5000e-004	13.9759
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	9.43614	0.1018	0.8696	0.3700	5.5500e-003		0.0703	0.0703		0.0703	0.0703		1,110.1342	1,110.1342	0.0213	0.0204	1,116.7312
<b>Total</b>		<b>0.2521</b>	<b>2.1562</b>	<b>0.9326</b>	<b>0.0138</b>		<b>0.1742</b>	<b>0.1742</b>		<b>0.1742</b>	<b>0.1742</b>		<b>2,749.8586</b>	<b>2,749.8586</b>	<b>0.0527</b>	<b>0.0504</b>	<b>2,766.1997</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	16.1052	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728	0.0000	88.7555	88.7555	0.0855	0.0000	90.8935
Unmitigated	16.1052	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728	0.0000	88.7555	88.7555	0.0855	0.0000	90.8935

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.4646					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	1.4872	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728		88.7555	88.7555	0.0855		90.8935
<b>Total</b>	<b>16.1052</b>	<b>0.5672</b>	<b>49.2518</b>	<b>2.6000e-003</b>		<b>0.2728</b>	<b>0.2728</b>		<b>0.2728</b>	<b>0.2728</b>	<b>0.0000</b>	<b>88.7555</b>	<b>88.7555</b>	<b>0.0855</b>	<b>0.0000</b>	<b>90.8935</b>

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.4646					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	1.4872	0.5672	49.2518	2.6000e-003		0.2728	0.2728		0.2728	0.2728		88.7555	88.7555	0.0855		90.8935
<b>Total</b>	<b>16.1052</b>	<b>0.5672</b>	<b>49.2518</b>	<b>2.6000e-003</b>		<b>0.2728</b>	<b>0.2728</b>		<b>0.2728</b>	<b>0.2728</b>	<b>0.0000</b>	<b>88.7555</b>	<b>88.7555</b>	<b>0.0855</b>	<b>0.0000</b>	<b>90.8935</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Wiley Canyon - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**Exhibit C**  
**Construction Health Risk**  
**Assessment**







# **C-1 Construction Health Risk Assessment Assumptions**



**Wiley Canyon Construction Health Risk Assessment - Unmitigated**

Health Risk Assessment Exposure Emissions Assumptions

Land Use	CalEEMod Landuse Type	Unit Amount	Size Metrics	Lot Acreage	Square Feet	% SQ FT	AERMOD Allocation
<b>Phase 1</b>							
Commercial	General Office Building	8.91	1000sqft	0.20	8,914	0.5%	Senior
Parking	Enclosed Parking Structure	602	Space	5.42	240,800	14.0%	Apartment
Parking	Enclosed Parking Structure	48	Space	0.43	19,200	1.1%	Senior
Parking	Parking Lot	143	Space	1.29	57,200	3.3%	Apartment
Parking	Parking Lot	176	Space	1.58	70,400	4.1%	Senior
Recreational	City Park	15.00	Acre	15.00	653,400	38.1%	Footprint
Recreational	Recreational Swimming Pool	2.07	1000sqft	0.10	2,069	0.1%	Apartment
Residential	Retirement Community	217	Dwelling Unit	6.36	277,108	16.2%	Senior
Residential	Apartments Mid Rise	379	Dwelling Unit	8.79	382,972	22.3%	Apartment
Recreational	Health Club	2.40	1000sqft	0.10	2,400	0.1%	Apartment
				39.28	1,714,463	1	

% Square Footage	
Senior	22%
Apartment	40%
Footprint	38%

Emissions (lb/day) from CalEEMod

Phase	Year	Start Date	End Date	Work Days	OFFROAD			ONROAD		
					Emissions (lbs/day)	Emissions (lbs/yr)	Emissions (g/s)	Emissions (lbs/day)	Emissions (lbs/yr)	Emissions (g/s)
Demolition	2023	1/2/2023	1/19/2023	14	1.18	16.4836	0.018543641	0.006	0.000103287	8.77249E-05
Site Preparation	2023	1/13/2023	2/1/2023	14	1.03	14.4578	0.016264666	0.003	4.52967E-05	4.38624E-05
Grading/Excavation	2023	2/4/2023	11/1/2023	193	3.27	631.8434	0.051561213	0.032	0.001653783	0.000505157
Drainage/Utilities/Sub-Grade	2023	6/16/2023	12/31/2023	141	1.51	213.192	0.023813475	0.010	0.000235338	0.000155647
Drainage/Utilities/Sub-Grade	2024	1/1/2024	1/2/2024	2	1.36	2.7264	0.021469927	0.012	0.000246948	0.000181153
Foundations/Concrete Pour	2024	1/2/2024	4/29/2024	85	1.22	103.53	0.019183077	0.011	0.000206343	0.000169411
Building Construction	2024	4/30/2024	12/31/2024	176	1.11	195.4304	0.017488414	0.028	0.000487067	0.000438641
Building Construction	2025	1/1/2025	11/1/2025	218	0.95	208.1464	0.015037768	0.027	0.000408388	0.000427721
Architectural Coatings	2025	7/26/2025	12/31/2025	113	0.49	55.7768	0.007774029	0.002	1.31005E-05	2.65408E-05
Paving	2025	8/23/2025	10/15/2025	38	0.81	30.647	0.012702095	0.033	0.000421454	0.000522572

Emissions distributed from CalEEMod to AERMOD sources for HRA calculations

Phase	Year	Start Date	End Date	Work Days	OFFROAD			ONROAD		
					Emissions (lbs/day)	Emissions (lbs/yr)	Emissions (g/s)	Emissions (lbs/day)	Emissions (lbs/yr)	Emissions (g/s)
Demolition	2023	1/2/2023	1/19/2023	14	1.18	16.4836	0.018543641	0.01	0.000103287	8.77249E-05
Site Preparation	2023	1/13/2023	2/1/2023	14	1.03	14.4578	0.016264666	0.00	4.52967E-05	4.38624E-05
Grading/Excavation	2023	2/4/2023	11/1/2023	193	3.27	631.8434	0.051561213	0.03	0.001653783	0.000505157
Drainage/Utilities/Sub-Grade	2023	6/16/2023	12/31/2023	141	1.51	213.192	0.023813475	0.01	0.000235338	0.000155647
Drainage/Utilities/Sub-Grade	2024	1/1/2024	1/2/2024	2	1.36	2.7264	0.021469927	0.01	0.000246948	0.000181153
Foundations/Concrete Pour	2024	1/2/2024	4/29/2024	85	1.22	103.53	0.019183077	0.01	0.000206343	0.000169411
Building Construction_Footprint	2024	4/30/2024	12/31/2024	176	0.42	74.481	0.00666502	0.01	7.07E-05	0.000167171
Building Construction_Footprint	2025	1/1/2025	11/1/2025	218	0.36	79.327	0.005731053	0.01	5.93E-05	0.000163009
Building Construction_Senior	2024	4/30/2024	12/31/2024	176	0.24	42.817	0.00383154	0.01	2.34E-05	9.6102E-05
Building Construction_Senior	2025	1/1/2025	10/29/2025	216	0.21	45.184	0.003294627	0.01	1.96E-05	9.37094E-05
Building Construction_Apartment	2025	5/1/2025	11/1/2025	132	0.83	161.77	0.013003943	0.02	7.22E-04	0.000346371
Architectural Coatings	2025	7/26/2025	12/31/2025	113	0.49	55.7768	0.007774029	0.00	1.31005E-05	2.65408E-05
Paving	2025	8/23/2025	10/15/2025	38	0.81	30.647	0.012702095	0.03	0.000421454	0.000522572

Note Distribution of building construction emissions to the "senior residential", "apartment", and "footprint" AERMOD sources were based on square footage.

## Wiley Canyon Construction Health Risk Assessment - Unmitigated

Health Risk Assessment Exposure Duration Assumptions for Offroad Equipment and Haul Activities (Residential Receptors)

OFFROAD

Start Date	1/2/2023	4/3/2023	4/3/2025
End Date	4/2/2023	4/2/2025	3/31/2039
Days	90	730	5110

Phase	Start Date	End Date	Hrs/Day	Duration (days)	3rd Tri	0<2	2<16	
Demolition	2023	1/2/2023	1/19/2023	8	18	18	0	0
Site Preparation	2023	1/13/2023	2/1/2023	8	20	20	0	0
Grading/Excavation	2023	2/4/2023	11/1/2023	8	271	58	213	0
Drainage/Utilities/Sub-Grade	2023	6/16/2023	12/31/2023	8	199	0	199	0
Drainage/Utilities/Sub-Grade	2024	1/1/2024	1/2/2024	8	2	0	2	0
Foundations/Concrete Pour	2024	1/2/2024	4/29/2024	8	119	0	119	0
Building Construction_Footprint	2024	4/30/2024	12/31/2024	8	246	0	246	0
Building Construction_Footprint	2025	1/1/2025	11/1/2025	8	305	0	92	213
Building Construction_Senior	2024	4/30/2024	12/31/2024	8	246	0	246	0
Building Construction_Senior	2025	1/1/2025	10/29/2025	8	303	0	92	210
Building Construction_Apartment	2025	5/1/2025	11/1/2025	8	185	0	0	185
Architectural Coatings	2025	7/26/2025	12/31/2025	8	159	0	0	159
Paving	2025	8/23/2025	10/15/2025	8	54	0	0	54

### Risk Factors

	Abbreviation	UOM	3rd Trimester	0<2	2<16	16<30
Daily Breathing Rate (95th %'ile)	DBR	L/kg-day	361	1090	572	261
Fraction Of Time At Home <sup>a</sup>	FAH	unitless	1	1	1	0.73
Exposure Frequency	EF	days/year	0.96	0.96	0.96	0.96
Age Sensitivity Factor	ASF	unitless	10	10	3	1
Inhalation Absorption Factor	A	unitless	1	1	1	1
Conversion Factor	CF <sub>1</sub>	m <sup>3</sup> /L	0.001	0.001	0.001	0.001
Conversion Factor	CF <sub>2</sub>	µg/m <sup>3</sup>	0.001	0.001	0.001	0.001
Cancer Potency Factor (diesel exhaust)	CPF	mg/kg-day <sup>-1</sup>	1.1	1.1	1.1	1.1
Averaging Time (for residential exposure)	AT	years	70.00	70.00	70.00	70.00

<sup>a</sup> assume school or daycare will have cancer risk of >1 per million

### Intake Factor for Inhalation, IF (m<sup>3</sup>/kg-day)

Phase	Year	Equation	3rd Trimester	0<2	2<16
Demolition	2023	$DBR \cdot FAH \cdot EF \cdot ED \cdot ASF \cdot A \cdot CF_1$ $AT$	0.002438731	0	0
Site Preparation	2023		0.002709702	0	0
Grading/Excavation	2023		0.007858135	0.087134547	0
Drainage/Utilities/Sub-Grade	2023		0	0.081407394	0
Drainage/Utilities/Sub-Grade	2024		0	0.000818165	0
Foundations/Concrete Pour	2024		0	0.048680803	0
Building Construction_Footprint	2024		0	0.100634265	0
Building Construction_Footprint	2025		0	0.037635579	0.0137334
Building Construction_Senior	2024		0	0.100634265	0
Building Construction_Senior	2025		0	0.037635579	0.0135399
Building Construction_Apartment	2025		0	0	0.011928
Architectural Coatings	2025		0	0	0.0102517
Paving	2025		0	0	0.0034817

### Risk Calculation Part 1, R1

Equation	3rd Trimester	0<2	2<16
$IF \cdot CPF \cdot CF_2$	2.6826E-06	0	0
	2.98067E-06	0	0
	8.64395E-06	9.5848E-05	0
	0	8.95481E-05	0
	0	8.99981E-07	0
	0	5.35489E-05	0
	0	0.000110698	0
	0	4.13991E-05	1.51067E-05
	0	0.000110698	0
	0	4.13991E-05	1.48939E-05
	0	0	1.31209E-05
	0	0	1.12768E-05
	0	0	3.82987E-06

**Wiley Canyon Construction Health Risk Assessment - Mitigated**

Health Risk Assessment Exposure Emissions Assumptions

Land Use	CalEEMod Landuse Type	Unit Amount	Size Metrics	Lot Acreage	Square Feet	% SQ FT	AERMOD Allocation
<b>Phase 1</b>							
Commercial	General Office Building	8.91	1000sqft	0.20	8,914	0.5%	Senior
Parking	Enclosed Parking Structure	602	Space	5.42	240,800	14.0%	Apartment
Parking	Enclosed Parking Structure	48	Space	0.43	19,200	1.1%	Senior
Parking	Parking Lot	143	Space	1.29	57,200	3.3%	Apartment
Parking	Parking Lot	176	Space	1.58	70,400	4.1%	Senior
Recreational	City Park	15.00	Acre	15.00	653,400	38.1%	Footprint
Recreational	Recreational Swimming Pool	2.07	1000sqft	0.10	2,069	0.1%	Apartment
Residential	Retirement Community	217	Dwelling Unit	6.36	277,108	16.2%	Senior
Residential	Apartments Mid Rise	379	Dwelling Unit	8.79	382,972	22.3%	Apartment
Recreational	Health Club	2.40	1000sqft	0.10	2,400	0.1%	Apartment
				39.28	1,714,463	1	

% Square Footage	
Senior	22%
Apartment	40%
Footprint	38%

Emissions (lb/day) from CalEEMod

Phase	Year	Start Date	End Date	Work Days	OFFROAD			ONROAD		
					Emissions (lbs/day)	Emissions (lbs/yr)	Emissions (g/s)	Emissions (lbs/day)	Emissions (lbs/yr)	Emissions (g/s)
Demolition	2023	1/2/2023	1/19/2023	14	0.17	2.436	0.00274044	0.006	1.52641E-05	8.77249E-05
Site Preparation	2023	1/13/2023	2/1/2023	14	0.08	1.183	0.001330846	0.003	3.70638E-06	4.38624E-05
Grading/Excavation	2023	2/4/2023	11/1/2023	193	0.26	49.215	0.004016161	0.032	0.000128815	0.000505157
Drainage/Utilities/Sub-Grade	2023	6/16/2023	12/31/2023	141	0.15	21.0795	0.002354573	0.010	2.32692E-05	0.000155647
Drainage/Utilities/Sub-Grade	2024	1/1/2024	1/2/2024	2	0.15	0.299	0.002354573	0.012	2.70824E-05	0.000181153
Foundations/Concrete Pour	2024	1/2/2024	4/29/2024	85	0.09	7.3185	0.001356045	0.011	1.45863E-05	0.000169411
Building Construction	2024	4/30/2024	12/31/2024	176	0.27	47.0272	0.004208307	0.028	0.000117205	0.000438641
Building Construction	2025	1/1/2025	11/1/2025	218	0.24	52.5162	0.003794091	0.027	0.000103038	0.000427721
Architectural Coatings	2025	7/26/2025	12/31/2025	113	0.04	4.3279	0.000603212	0.002	1.01651E-06	2.65408E-05
Paving	2025	8/23/2025	10/15/2025	38	0.06	2.4168	0.001001678	0.033	3.32356E-05	0.000522572

Emissions distributed from CalEEMod to AERMOD sources for HRA calculations

Phase	Year	Start Date	End Date	Work Days	OFFROAD			ONROAD		
					Emissions (lbs/day)	Emissions (lbs/yr)	Emissions (g/s)	Emissions (lbs/day)	Emissions (lbs/yr)	Emissions (g/s)
Demolition	2023	1/2/2023	1/19/2023	14	0.17	2.436	0.00274044	0.01	1.52641E-05	8.77249E-05
Site Preparation	2023	1/13/2023	2/1/2023	14	0.08	1.183	0.001330846	0.00	3.70638E-06	4.38624E-05
Grading/Excavation	2023	2/4/2023	11/1/2023	193	0.26	49.215	0.004016161	0.03	0.000128815	0.000505157
Drainage/Utilities/Sub-Grade	2023	6/16/2023	12/31/2023	141	0.15	21.0795	0.002354573	0.01	2.32692E-05	0.000155647
Drainage/Utilities/Sub-Grade	2024	1/1/2024	1/2/2024	2	0.15	0.299	0.002354573	0.01	2.70824E-05	0.000181153
Foundations/Concrete Pour	2024	1/2/2024	4/29/2024	85	0.09	7.3185	0.001356045	0.01	1.45863E-05	0.000169411
Building Construction_Footprint	2024	4/30/2024	12/31/2024	176	0.10	17.923	0.00160383	0.01	1.70E-05	0.000167171
Building Construction_Footprint	2025	1/1/2025	11/1/2025	218	0.09	20.014	0.001445968	0.01	1.50E-05	0.000163009
Building Construction_Senior	2024	4/30/2024	12/31/2024	176	0.06	10.303	0.000921999	0.01	5.63E-06	9.6102E-05
Building Construction_Senior	2025	1/1/2025	10/29/2025	216	0.05	11.400	0.000831248	0.01	4.95E-06	9.37094E-05
Building Construction_Apartment	2025	5/1/2025	11/1/2025	132	0.20	39.90	0.003199353	0.02	1.78E-04	0.000346371
Architectural Coatings	2025	7/26/2025	12/31/2025	113	0.04	4.3279	0.000603212	0.00	1.01651E-06	2.65408E-05
Paving	2025	8/23/2025	10/15/2025	38	0.06	2.4168	0.001001678	0.03	3.32356E-05	0.000522572

Note Distribution of building construction emissions to the "senior residential", "apartment", and "footprint" AERMOD sources were based on square footage.

## Wiley Canyon Construction Health Risk Assessment - Mitigated

Health Risk Assessment Exposure Duration Assumptions for Offroad Equipment and Haul Activities (Residential Receptors)

OFFROAD

Start Date	1/2/2023	4/3/2023	4/3/2025
End Date	4/2/2023	4/2/2025	3/31/2039
Days	90	730	5110

Phase	Start Date	End Date	Hrs/Day	Duration (days)	3rd Tri	0<2	2<16	
Demolition	2023	1/2/2023	1/19/2023	8	18	18	0	0
Site Preparation	2023	1/13/2023	2/1/2023	8	20	20	0	0
Grading/Excavation	2023	2/4/2023	11/1/2023	8	271	58	213	0
Drainage/Utilities/Sub-Grade	2023	6/16/2023	12/31/2023	8	199	0	199	0
Drainage/Utilities/Sub-Grade	2024	1/1/2024	1/2/2024	8	2	0	2	0
Foundations/Concrete Pour	2024	1/2/2024	4/29/2024	8	119	0	119	0
Building Construction_Footprint	2024	4/30/2024	12/31/2024	8	246	0	246	0
Building Construction_Footprint	2025	1/1/2025	11/1/2025	8	305	0	92	213
Building Construction_Senior	2024	4/30/2024	12/31/2024	8	246	0	246	0
Building Construction_Senior	2025	1/1/2025	10/29/2025	8	303	0	92	210
Building Construction_Apartment	2025	5/1/2025	11/1/2025	8	185	0	0	185
Architectural Coatings	2025	7/26/2025	12/31/2025	8	159	0	0	159
Paving	2025	8/23/2025	10/15/2025	8	54	0	0	54

### Risk Factors

	Abbreviation	UOM	3rd Trimester	0<2	2<16	16<30
Daily Breathing Rate (95th %'ile)	DBR	L/kg-day	361	1090	572	261
Fraction Of Time At Home <sup>a</sup>	FAH	unitless	1	1	1	0.73
Exposure Frequency	EF	days/year	0.96	0.96	0.96	0.96
Age Sensitivity Factor	ASF	unitless	10	10	3	1
Inhalation Absorption Factor	A	unitless	1	1	1	1
Conversion Factor	CF <sub>1</sub>	m <sup>3</sup> /L	0.001	0.001	0.001	0.001
Conversion Factor	CF <sub>2</sub>	µg/m <sup>3</sup>	0.001	0.001	0.001	0.001
Cancer Potency Factor (diesel exhaust)	CPF	mg/kg-day <sup>-1</sup>	1.1	1.1	1.1	1.1
Averaging Time (for residential exposure)	AT	years	70.00	70.00	70.00	70.00

<sup>a</sup> assume school or daycare will have cancer risk of >1 per million

### Intake Factor for Inhalation, IF (m<sup>3</sup>/kg-day)

Phase	Year	Equation	3rd Trimester	0<2	2<16
Demolition	2023	$DBR \cdot FAH \cdot EF \cdot ED \cdot ASF \cdot A \cdot CF_1$ $AT$	0.002438731	0	0
Site Preparation	2023		0.002709702	0	0
Grading/Excavation	2023		0.007858135	0.087134547	0
Drainage/Utilities/Sub-Grade	2023		0	0.081407394	0
Drainage/Utilities/Sub-Grade	2024		0	0.000818165	0
Foundations/Concrete Pour	2024		0	0.048680803	0
Building Construction_Footprint	2024		0	0.100634265	0
Building Construction_Footprint	2025		0	0.037635579	0.0137334
Building Construction_Senior	2024		0	0.100634265	0
Building Construction_Senior	2025		0	0.037635579	0.0135399
Building Construction_Apartment	2025		0	0	0.011928
Architectural Coatings	2025		0	0	0.0102517
Paving	2025		0	0	0.0034817

### Risk Calculation Part 1, R1

Equation	3rd Trimester	0<2	2<16
$IF \cdot CPF \cdot CF_2$	2.6826E-06	0	0
	2.98067E-06	0	0
	8.64395E-06	9.5848E-05	0
	0	8.95481E-05	0
	0	8.99981E-07	0
	0	5.35489E-05	0
	0	0.000110698	0
	0	4.13991E-05	1.51067E-05
	0	0.000110698	0
	0	4.13991E-05	1.48939E-05
	0	0	1.31209E-05
	0	0	1.12768E-05

## **C-2 Unmitigated Construction Health Risk Assessment**





**Wiley Canyon Construction Health Risk Assessment - Unmitigated**

Offroad DPM Emissions, Ground Level Concentrations and Health Risk Calculations  
Residential Receptors

Phase	Start Date	End Date	Work Days	Emissions (lbs/day)	Emissions (g/s)
Demolition	2023	1/2/2023	1/19/2023	14	1.18
Site Preparation	2023	1/13/2023	2/1/2023	14	1.03
Grading/Excavation	2023	2/4/2023	11/1/2023	193	3.27
Drainage/Utilities/Sub-Grade	2023	6/16/2023	12/31/2023	141	1.51
Drainage/Utilities/Sub-Grade	2024	1/1/2024	1/2/2024	2	1.36
Foundations/Concrete Pour	2024	1/2/2024	4/29/2024	85	1.22
Building Construction_Footprint	2024	4/30/2024	12/31/2024	176	0.42
Building Construction_Footprint	2025	1/1/2025	11/1/2025	218	0.36
Building Construction_Senior	2024	4/30/2024	12/31/2024	176	0.24
Building Construction_Senior	2025	1/1/2025	10/29/2025	216	0.21
Building Construction_Apartment	2025	5/1/2025	11/1/2025	132	0.83
Architectural Coatings	2025	7/26/2025	12/31/2025	113	0.49
Paving	2025	8/23/2025	10/15/2025	38	0.81

Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading/Excavation		Drainage/Utilities/Sub-Grade		Foundations/Concrete Pour		Building Construction_Footprint		Building Construction_Footprint		Building Construction_Senior		Building Construction_Senior		Building Construction_Apartment		Architectural Coatings		Paving		Child Risk		
			2023	2023	2023	2023	2024	2024	2024	2024	2024	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	3rd Trimester	0<2	2<16	Total	per million			
3571003803400	357100	3803400	0.001843052	0.00389132	0.01233602	0.005697374	0.00513668	0.002928297	0.001017415	0.000874845	0.000409417	0.000384376	0.002328356	0.00188474	1.23175E-07	2.06208E-06	6.95523E-08	2.25481E-06	2.25481E-06	2.25481E-06	2.25481E-06	2.25481E-06	2.25481E-06	2.25481E-06	2.25481E-06	2.25481E-06	2.25481E-06	2.25481E-06	2.25481E-06
3571253803400	357125	3803400	0.00188014	0.00388547	0.012317458	0.005688001	0.005128951	0.002925871	0.001033945	0.000889058	0.00041327	0.000355359	0.002362816	0.00191586	1.23096E-07	2.06572E-06	7.06628E-08	2.25948E-06	2.25948E-06	2.25948E-06	2.25948E-06	2.25948E-06	2.25948E-06	2.25948E-06	2.25948E-06	2.25948E-06	2.25948E-06	2.25948E-06	2.25948E-06
3571503803400	357150	3803400	0.001862894	0.00371208	0.011767816	0.005434949	0.004900081	0.002920048	0.001014549	0.000872381	0.000409477	0.000352097	0.002321201	0.00183363	1.17782E-07	1.98372E-06	6.93075E-08	2.17080E-06	2.17080E-06	2.17080E-06	2.17080E-06	2.17080E-06	2.17080E-06	2.17080E-06	2.17080E-06	2.17080E-06	2.17080E-06	2.17080E-06	2.17080E-06
3571753803400	357175	3803400	0.001823582	0.00349479	0.011078958	0.005116801	0.004613243	0.002822982	0.000980824	0.000843382	0.000400319	0.000344223	0.002226015	0.00144026	1.11075E-07	1.87747E-06	6.6946E-08	2.05549E-06	2.05549E-06	2.05549E-06	2.05549E-06	2.05549E-06	2.05549E-06	2.05549E-06	2.05549E-06	2.05549E-06	2.05549E-06	2.05549E-06	2.05549E-06
3572003803400	357200	3803400	0.00179113	0.00331767	0.010517456	0.004857473	0.004379436	0.002741454	0.000952498	0.000819025	0.000392618	0.0003776	0.002153063	0.00110986	1.05066E-07	1.79058E-06	6.49545E-08	1.96114E-06	1.96114E-06	1.96114E-06	1.96114E-06	1.96114E-06	1.96114E-06	1.96114E-06	1.96114E-06	1.96114E-06	1.96114E-06	1.96114E-06	1.96114E-06
3572253803400	357225	3803400	0.001766282	0.0031934	0.010123529	0.004675538	0.004215405	0.002679492	0.00093097	0.000800513	0.000386526	0.000323262	0.002096886	0.001085876	1.01764E-07	1.72903E-06	6.34297E-08	1.88422E-06	1.88422E-06	1.88422E-06	1.88422E-06	1.88422E-06	1.88422E-06	1.88422E-06	1.88422E-06	1.88422E-06	1.88422E-06	1.88422E-06	1.88422E-06
3572503803400	357250	3803400	0.001740692	0.00308102	0.009767241	0.004510987	0.004067048	0.002617339	0.000909375	0.000781945	0.000380357	0.000327058	0.002041099	0.001066088	1.0069192	9.82086E-07	1.67262E-06	6.19058E-08	1.83281E-06	1.83281E-06	1.83281E-06	1.83281E-06	1.83281E-06	1.83281E-06	1.83281E-06	1.83281E-06	1.83281E-06	1.83281E-06	1.83281E-06
3572753803400	357275	3803400	0.001712134	0.00296846	0.009410437	0.004346137	0.003918476	0.002550966	0.000886314	0.000762115	0.000373537	0.000321193	0.001982581	0.00103379	9.47843E-08	1.61656E-06	6.02897E-08	1.77068E-06	1.77068E-06	1.77068E-06	1.77068E-06	1.77068E-06	1.77068E-06	1.77068E-06	1.77068E-06	1.77068E-06	1.77068E-06	1.77068E-06	1.77068E-06
3573003803400	357300	3803400	0.001662808	0.00281899	0.008936589	0.004127351	0.003721168	0.00245505	0.000852989	0.00073346	0.000362081	0.000311342	0.001902087	0.00099492	9.01106E-08	1.53872E-06	5.7983E-08	1.66882E-06	1.66882E-06	1.66882E-06	1.66882E-06	1.66882E-06	1.66882E-06	1.66882E-06	1.66882E-06	1.66882E-06	1.66882E-06	1.66882E-06	1.66882E-06
3573253803400	357325	3803400	0.001626092	0.00269636	0.008547818	0.003947798	0.003595284	0.002382538	0.000827795	0.000711797	0.000353728	0.00030416	0.001841358	0.000965534	8.6286E-08	1.47651E-06	5.62445E-08	1.61898E-06	1.61898E-06	1.61898E-06	1.61898E-06	1.61898E-06	1.61898E-06	1.61898E-06	1.61898E-06	1.61898E-06	1.61898E-06	1.61898E-06	1.61898E-06
3573503803400	357350	3803400	0.001531519	0.00264475	0.00813586	0.003606894	0.003255553	0.002217564	0.000770476	0.00066251	0.000332501	0.000285908	0.001707678	0.000898678	8.17551E-08	1.41356E-06	5.23164E-08	1.48642E-06	1.48642E-06	1.48642E-06	1.48642E-06	1.48642E-06	1.48642E-06	1.48642E-06	1.48642E-06	1.48642E-06	1.48642E-06	1.48642E-06	1.48642E-06
3571753803425	357175	3803425	0.001889226	0.00372461	0.011807518	0.005453286	0.004916613	0.002955153	0.001026746	0.000828689	0.000415301	0.000357105	0.002337199	0.001197589	1.18233E-07	1.99396E-06	7.01187E-08	2.18205E-06	2.18205E-06	2.18205E-06	2.18205E-06	2.18205E-06	2.18205E-06	2.18205E-06	2.18205E-06	2.18205E-06	2.18205E-06	2.18205E-06	2.18205E-06
3572003803425	357200	3803425	0.001861967	0.00355578	0.011273212	0.005206102	0.004693757	0.002881106	0.001001919	0.000860747	0.000408595	0.000351339	0.002269188	0.001167581	1.13031E-07	1.91135E-06	6.62928E-08	2.09267E-06	2.09267E-06	2.09267E-06	2.09267E-06	2.09267E-06	2.09267E-06	2.09267E-06	2.09267E-06	2.09267E-06	2.09267E-06	2.09267E-06	2.09267E-06
3572253803425	357225	3803425	0.001833224	0.00341151	0.010814964	0.004994876	0.004503317	0.002809745	0.001067225	0.000839427	0.000401622	0.000345343	0.002204949	0.001138662	1.0857E-07	1.83996E-06	6.65431E-08	2.01507E-06	2.01507E-06	2.01507E-06	2.01507E-06	2.01507E-06	2.01507E-06	2.01507E-06	2.01507E-06	2.01507E-06	2.01507E-06	2.01507E-06	2.01507E-06
3572503803425	357250	3803425	0.00180578	0.00327863	0.010393709	0.004800312	0.004327908	0.002740303	0.000952098	0.000818681	0.000394993	0.000339643	0.0021424	0.00111052	1.00459E-07	1.77378E-06	6.48409E-08	1.94309E-06	1.94309E-06	1.94309E-06	1.94309E-06	1.94309E-06	1.94309E-06	1.94309E-06	1.94309E-06	1.94309E-06	1.94309E-06	1.94309E-06	1.94309E-06
3572753803425	357275	3803425	0.00176962	0.00313713	0.009945127	0.004594343	0.004141119	0.002666933	0.000924438	0.000794897	0.000386449	0.000332296	0.002073349	0.00127088	1.00063E-07	1.70251E-06	6.29117E-08	1.86548E-06	1.86548E-06	1.86548E-06	1.86548E-06	1.86548E-06	1.86548E-06	1.86548E-06	1.86548E-06	1.86548E-06	1.86548E-06	1.86548E-06	1.86548E-06
3573003803425	357300	3803425	0.00171883	0.00296668	0.009404765	0.004435378	0.003916115	0.002582525	0.000888847	0.000764293	0.000374533	0.000322025	0.001987393	0.001036744	9.47454E-08	1.61573E-06	6.04532E-08	1.77093E-06	1.77093E-06	1.77093E-06	1.77093E-06	1.77093E-06	1.77093E-06	1.77093E-06	1.77093E-06	1.77093E-06	1.77093E-06	1.77093E-06	1.77093E-06
3573253803425	357325	3803425	0.001697856	0.00286583	0.009085066	0.004195954	0.003783001	0.002511065	0.000872451	0.000750195	0.000369859	0.00031803	0.00194656	0.00101762	9.01626E-08	1.56144E-06	5.93151E-08	1.71708E-06	1.71708E-06	1.71708E-06	1.71708E-06	1.71708E-06	1.71708E-06	1.71708E-06	1.71708E-06	1.71708E-06	1.71708E-06	1.71708E-06	1.71708E-06
3571003803450	357100	3803450	0.00210322	0.00500545	0.015867963	0.007328597	0.006607337	0.003476933	0.001208035	0.000403875	0.000465257	0.000400043	0.002797018	0.001409043	1.57274E-07	2.61415E-06	8.27913E-08	2.85466E-06	2.85466E-06	2.85466E-06	2.85466E-06	2.85466E-06	2.85466E-06	2.85466E-06	2.85466E-06	2.85466E-06	2.85466E-06	2.85466E-06	2.85466E-06
3571253803450	357125	3803450	0.002045734	0.00459493	0.014566558	0.006727549	0.006065469	0.003330758	0.001152747	0.000959083	0.000465045	0.0003887	0.00267759	0.001349805	1.45096E-07	2.41786E-06	7.92421E-08	2.6422E-06	2.6422E-06	2.6422E-06	2.6422E-06	2.6422E-06	2.6422E-06	2.6422E-06	2.6422E-06	2.6422E-06	2.6422E-06	2.6422E-06	2.6422E-06
3571503803450	357150	3803450	0.001996408	0.00442898	0.013469951	0.006221032	0.005608804	0.003201847	0.00112458	0.00095657	0.000440359	0.000378652	0.002524414	0.001297653	1.34453E-07	2.25181E-06	7.60992E-08	2.46237E-06	2.46237E-06	2.46237E-06	2.46237E-06	2.46237E-06	2.46237E-06	2.46237E-06	2.46237E-06	2.46237E-06	2.46237E-06	2.46237E-06	2.46237E-06
3571753803450	357175	3803450	0.001964142	0.004400338	0.013691127	0.005861497	0.005284608	0.003107083	0.001079533	0.000928259	0.000432389	0.000371799	0.002464637	0.001259159	1.28905E-07	2.13364E-06	7.37599E-08	2.3343E-06	2.3343E-06	2.3343E-06	2.3343E-06	2.3343E-06	2.3343E-06	2.3343E-06	2.3343E-06	2.3343E-06	2.3343E-06	2.3343E-06	2.3343E-06
3572003803450	357200	3803450	0.001908326	0.00376934	0.011949311	0.005518773	0.004975656	0.002971075	0.001032278	0.000887625	0.000418442	0.000359806	0.00234123	0.001204042	1.19644E-07	2.01532E-06	7.04052E-08	2.20537E-06	2.20537E-06	2.20537E-06	2.20537E-0								



Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading/Excavation		Drainage/Utilities-Sub-Grade		Drainage/Utilities-Sub-Grade		Foundations/Concrete Pour		Building Construction_Footprint		Building Construction_Footprint		Building Construction_Sensor		Building Construction_Sensor		Building Construction_Apartment		Architectural Coatings		Paving		Child Risk						
			2023		2023		2023		2024		2024		2025		2025		2025		2025		2025		2025		2025		2025		2025		3rd Trimester	0-2	2-16	Total	per million
			2023	2023	2023	2023	2023	2024	2024	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	
3570753803850	357075	3803850	0.004110013	0.01706001	0.054082557	0.024977954	0.022519806	0.010306684	0.003580982	0.00307918	0.000949111	0.000816112	0.009123957	0.00417683	0.000642334	5.29363E-07	6.65535E-06	2.50122E-07	9.43483E-06	9.43483E-06															
3571003803850	357100	3803850	0.004078303	0.01388287	0.044010589	0.02032623	0.018325871	0.00947913	0.003247864	0.002792742	0.000943478	0.000811269	0.008126554	0.003788284	0.000587586	4.32746E-07	1.61874E-06	2.26123E-07	7.82761E-06	7.82761E-06															
3571253803850	357125	3803850	0.003900284	0.01160045	0.037657004	0.016984823	0.015312996	0.008211204	0.002512895	0.000893768	0.00071964	0.007236211	0.006881E-06	0.003408678	0.000531176	6.62921E-07	6.62921E-06	2.03163E-07	6.63489E-06	6.63489E-06															
3571503803850	357150	3803850	0.003813129	0.01004181	0.031833893	0.014704239	0.013255533	0.007848564	0.002726924	0.002344803	0.00073783	0.000751334	0.006709463	0.003180666	0.000498392	3.15331E-07	5.32677E-06	1.89543E-07	5.83164E-06	5.83164E-06															
3571753803850	357175	3803850	0.003745259	0.00888913	0.02817975	0.010314778	0.011733959	0.007421357	0.002578496	0.002217172	0.000854548	0.000734801	0.006279434	0.003007538	0.00471959	2.80127E-07	4.77667E-06	1.78808E-07	5.25565E-06	5.25565E-06															
3572003803850	357200	3803850	0.003660239	0.00796546	0.025251589	0.011662411	0.010514682	0.006938711	0.002148004	0.002072979	0.000831521	0.000715	0.005812633	0.002811944	0.00442503	2.51835E-07	4.32002E-06	1.66889E-07	4.73875E-06	4.73875E-06															
3572253803850	357225	3803850	0.003584115	0.00721224	0.022863789	0.010559609	0.009520041	0.006339703	0.002721772	0.001953773	0.001417524	0.000697143	0.005430443	0.002650244	0.00418051	2.45785E-07	3.94828E-06	1.57048E-07	4.33262E-06	4.33262E-06															
3572503803850	357250	3803850	0.003428534	0.00647724	0.020533738	0.009483478	0.008550184	0.006023294	0.00209275	0.001799493	0.000772438	0.000664197	0.004954112	0.002440967	0.000385737	2.05996E-07	3.56675E-06	1.44379E-07	3.91712E-06	3.91712E-06															
3572753803850	357275	3803850	0.003283337	0.00586097	0.018580083	0.008581186	0.007736688	0.005572684	0.001936188	0.001664871	0.000736958	0.000663689	0.004541887	0.002258355	0.00357475	1.86883E-07	3.24574E-06	1.3334E-07	3.56596E-06	3.56596E-06															
3573003803850	357300	3803850	0.003177082	0.00537397	0.017054387	0.007876545	0.007101393	0.005233719	0.001818417	0.001563603	0.000710521	0.000610956	0.004231093	0.002120988	0.00336263	1.71975E-07	2.99658E-06	1.25032E-07	3.29359E-06	3.29359E-06															
3573253803850	357325	3803850	0.003087516	0.00498317	0.015797325	0.007295972	0.006577956	0.004952303	0.001720642	0.001479529	0.000688183	0.0005919748	0.003973485	0.002006943	0.00318645	1.59687E-07	2.70999E-06	1.18135E-07	3.06882E-06	3.06882E-06															
3573503803850	357350	3803850	0.003027249	0.00467186	0.014810443	0.006840183	0.006167022	0.00474455	0.001648459	0.001417461	0.000672665	0.000578405	0.003781287	0.00192275	0.00305714	1.50067E-07	2.63126E-06	1.13033E-07	2.89436E-06	2.89436E-06															
3570003803875	357000	3803875	0.005168298	0.04095167	0.12982337	0.05958822	0.054057625	0.018701582	0.006497728	0.005587203	0.004961974	0.001053523	0.017303047	0.0075789	0.01136952	1.25811E-06	1.99923E-06	4.56136E-07	2.17065E-06	2.17065E-06															
3570253803875	357025	3803875	0.004866408	0.02836981	0.089936162	0.041536892	0.037449134	0.015463287	0.005327606	0.004619744	0.00114245	0.000982359	0.014151931	0.006266567	0.00949634	8.75019E-07	1.41546E-05	3.77143E-07	1.54068E-05	1.54068E-05															
3570503803875	357050	3803875	0.004505363	0.02127321	0.067438973	0.031146596	0.028081376	0.013056002	0.004536213	0.003900555	0.001051796	0.000904408	0.011841	0.005291004	0.00807942	6.58434E-07	1.07949E-05	3.18368E-07	1.17717E-05	1.17717E-05															
3570753803875	357075	3803875	0.004362762	0.0167583	0.024562139	0.022112539	0.01226504	0.003910834	0.00336281	0.001101396	0.000871561	0.001091928	0.004561567	0.00701765	0.025074E-07	8.63228E-07	8.63228E-06	2.7356E-07	9.46272E-06	9.46272E-06															
3571003803875	357100	3803875	0.004315105	0.01379455	0.043730612	0.020196923	0.018209289	0.011311159	0.003519997	0.003026741	0.001002124	0.000861611	0.008682837	0.004105968	0.00636515	4.30698E-07	7.22054E-06	2.45522E-07	7.89676E-06	7.89676E-06															
3571253803875	357125	3803875	0.004229619	0.01180213	0.037414363	0.017279772	0.015579223	0.009367097	0.003254529	0.002798473	0.000977121	0.000840196	0.008128245	0.003796058	0.00592858	3.69932E-07	6.26815E-06	2.26592E-07	6.86504E-06	6.86504E-06															
3571503803875	357150	3803875	0.004087019	0.01023145	0.032435097	0.014980105	0.013505872	0.008577905	0.002598033	0.002562698	0.000939417	0.000807777	0.007368814	0.003476235	0.00544729	3.21828E-07	4.44455E-06	2.70493E-07	6.02453E-06	6.02453E-06															
3571753803875	357175	3803875	0.00399189	0.00907178	0.032828204	0.011975066	0.007962895	0.00276665	0.00237896	0.000912941	0.000785011	0.006758669	0.003226999	0.00506471	2.86338E-07	5.92316E-06	1.92079E-07	4.49222E-06	4.49222E-06																
3572003803875	357200	3803875	0.003895158	0.00812144	0.025746061	0.011890782	0.010720578	0.004702749	0.002572031	0.002211613	0.000885239	0.000761191	0.006218356	0.002999988	0.00472175	2.57188E-07	4.44455E-06	1.78252E-07	4.87796E-06	4.87796E-06															
3572253803875	357225	3803875	0.003783274	0.00733358	0.023248435	0.010737258	0.00968057	0.00690936	0.002400807	0.002064383	0.000857154	0.000737041	0.005748263	0.002800283	0.00441766	2.92966E-07	4.00551E-06	1.66038E-07	4.44224E-06	4.44224E-06															
3572503803875	357250	3803875	0.003654952	0.00664883	0.021077708	0.00973471	0.008776691	0.006425563	0.002232515	0.001919673	0.000824509	0.000708971	0.005294295	0.002603989	0.00411624	2.11817E-07	3.69119E-06	1.51544E-07	4.05716E-06	4.05716E-06															
3572753803875	357275	3803875	0.003528289	0.00606664	0.019233101	0.00888195	0.008007853	0.004991259	0.002808169	0.001789922	0.000792746	0.000681658	0.004890783	0.002427985	0.00384467	1.93781E-07	3.98182E-06	1.43468E-07	3.72443E-06	3.72443E-06															
3573003803875	357300	3803875	0.003422414	0.00558447	0.017703543	0.008176357	0.007371699	0.005633302	0.00195725	0.001682981	0.000766001	0.000658662	0.004559182	0.002282921	0.00362099	1.78855E-07	3.13572E-06	1.34667E-07	3.44924E-06	3.44924E-06															
3573253803875	357325	3803875	0.003315603	0.00516306	0.016367592	0.00759365	0.006815414	0.005303353	0.001842611	0.001584407	0.000739949	0.000663689	0.004541887	0.002149208	0.00341407	1.65764E-07	2.91359E-06	1.26567E-07	3.20592E-06	3.20592E-06															
3573503803875	357350	3803875	0.003218991	0.00480198	0.015222933	0.00703699	0.006387871	0.005017717	0.001743369	0.001497071	0.000715617	0.000615338	0.003996242	0.002033453	0.00323484	1.54535E-07	2.72781E-06	1.19565E-07	2.99691E-06	2.99691E-06															
3570003803900	357000	3803900	0.005546032	0.03847082	0.121957378	0.056326012	0.050782818	0.012513821	0.00747482	0.006427376	0.001320949	0.001135329	0.020074577	0.008718573	0.01303032	1.18374E-06	1.92177E-05	5.25646E-07	2.09271E-05	2.09271E-05															
3570253803900	357025	3803900	0.005029777	0.02731172	0.086585199	0.039985294	0.036053804	0.01735493	0.006029843	0.005184883	0.001293075	0.001028154	0.006760816	0.00373164	0.01063203	8.43431E-07	1.38978E-05	4.24564E-07	1.51668E-05	1.51668E-05															
3570503803900	357050	3803900	0.004780365	0.02076721	0.065834904	0.03040559	0.027413446	0.014399009	0.005002831	0.004301786	0.001120151	0.000963184	0.013166622	0.005835264	0.00890315	6.43978E-07	1.07244E-05	3.5199E-07	1.17020E-05	1.17020E-05															
3570753803900	357075	3803900	0.004616069	0.01652214	0.052377427	0.024190442	0.021809796	0.012253382	0.004257348	0.003606767	0.001076931	0.000926021	0.010984967	0.004965739	0.00673548	5.14378E-07	8.64265E-06	2.98463E-07	9.45549E-06	9.45549E-06															
3571003803900	357100	3803900	0.004488674	0.01364947	0.043270686	0.019984056	0.018017777	0.0107642	0.003739943	0.003215866	0.00104647	0.000898929	0.009469341	0.004362241	0.00675383	4.26755E-07	7.22984E-06	2.61288E-07	9.17888E-06	9.17888E-06															
3571253803900	357125	3803900	0.004486078	0.01185223	0.033275172	0.017353117	0.01564535	0.00107476	0.003500402	0.003008992	0.001039772	0.000890403	0.008793976	0.004082842	0.00367112	3.72143E-07	6.37030E-06	2.44609E-07	6.98978E-06	6.98978E-06															
3571503803900	357150	3803900	0.004313993	0.01030009	0.032652685	0.015080597	0.013596475	0.008117141	0.003176884	0.002732797	0.000994246	0.000854923	0.007854772	0.003694763	0.00578066	3.24522E-07	5.58946E-06	2.20767E-07	6.13474E-06	6.13474E-06															
3571753803900	357175	3803900	0.004217566	0.0091627	0.029047009	0.013415321	0.012095083	0.00842233	0.002926277	0.002516219	0.000966659	0.000831202	0.007169413	0.003413187	0.0035358	2.89706E-07	5.01683E-06	2.03412E-07	5.50994E-06																

Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading/Excavation		Drainage/Utilities-Sub-Grade		Drainage/Utilities-Sub-Grade		Foundations/Concrete Pour		Building Construction_Footprint		Building Construction_Footprint		Building Construction_Sensor		Building Construction_Sensor		Building Construction_Sensor		Architectural Coatings		Paving		Child Risk			per million																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023		2023	2023	2023	2023	2023	2023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			3rd Trimester	0-2	2-16	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total		Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
3570753803975	357075	3803975	0.005818995	0.01624385	0.051495215	0.023782994	0.021442445	0.015603323	0.005421261	0.004661581	0.001383186	0.00118936	0.014167146	0.006323317	0.000971334	0.005195156	0.001573606	0.000855996	0.000611337	0.000422297	0.000253297	0.000097938	0.00084214	0.005437729	0.002757681	0.000438235	1.97438E-07	3.51976E-06	1.62484E-07	3.87969E-06	3.87968E-06	9.80763E-06	9.80763E-06	8.29344E-06	8.29344E-06	5.824941	5.824941	7.097814	7.097814	6.273869	6.273869	5.615183	5.615183	5.139156	5.139156	4.656406	4.656406	4.270182	4.270182	3.87968E-06	3.87968E-06	3.51345E-06	3.51345E-06	3.16436E-06	3.16436E-06	2.852891	2.852891	1.998965E-06	1.998965E-06	1.49529E-06	1.49529E-06	1.191211	1.191211	9.82621E-06	9.82621E-06	8.477412E-06	8.477412E-06	7.329919E-06	7.329919E-06	6.44393E-06	6.44393E-06	5.727976E-06	5.727976E-06	4.62621E-06	4.62621E-06	4.02366E-06	4.02366E-06	3.685952E-06	3.685952E-06	3.26444E-06	3.26444E-06	3.00108E-06	3.00108E-06	2.721993E-06	2.721993E-06	1.97518E-06	1.97518E-06	1.47817E-06	1.47817E-06	1.174809E-06	1.174809E-06	9.934003E-06	9.934003E-06	8.495639E-06	8.495639E-06	7.35846E-06	7.35846E-06	6.460064E-06	6.460064E-06	5.732173E-06	5.732173E-06	5.108156E-06	5.108156E-06	4.575777E-06	4.575777E-06	4.168333E-06	4.168333E-06	3.829329E-06	3.829329E-06	3.493932E-06	3.493932E-06	3.168333E-06	3.168333E-06	2.859239E-06	2.859239E-06	2.567004E-06	2.567004E-06	2.276412E-06	2.276412E-06	1.993729E-06	1.993729E-06	1.733533E-06	1.733533E-06	1.489936E-06	1.489936E-06	1.256700E-06	1.256700E-06	1.031108E-06	1.031108E-06	8.171333E-07	8.171333E-07	6.125677E-07	6.125677E-07	4.200229E-07	4.200229E-07	2.422941E-07	2.422941E-07	8.29344E-08	8.29344E-08	5.824941E-08	5.824941E-08	4.270182E-08	4.270182E-08	3.16436E-08	3.16436E-08	2.333333E-08	2.333333E-08	1.666667E-08	1.666667E-08	1.111111E-08	1.111111E-08	7.777778E-09	7.777778E-09	5.555556E-09	5.555556E-09	3.888889E-09	3.888889E-09	2.777778E-09	2.777778E-09	1.925926E-09	1.925926E-09	1.370370E-09	1.370370E-09	9.753086E-10	9.753086E-10	6.944444E-10	6.944444E-10	5.000000E-10	5.000000E-10	3.636364E-10	3.636364E-10	2.631579E-10	2.631579E-10	1.923077E-10	1.923077E-10	1.396825E-10	1.396825E-10	1.000000E-10	1.000000E-10	7.272727E-11	7.272727E-11	5.309573E-11	5.309573E-11	3.906250E-11	3.906250E-11	2.834505E-11	2.834505E-11	2.054794E-11	2.054794E-11	1.494790E-11	1.494790E-11	1.077519E-11	1.077519E-11	7.874064E-12	7.874064E-12	5.795775E-12	5.795775E-12	4.263441E-12	4.263441E-12	3.121695E-12	3.121695E-12	2.279221E-12	2.279221E-12	1.675570E-12	1.675570E-12	1.234568E-12	1.234568E-12	9.090909E-13	9.090909E-13	6.756757E-13	6.756757E-13	5.000000E-13	5.000000E-13	3.703704E-13	3.703704E-13	2.747253E-13	2.747253E-13	2.037037E-13	2.037037E-13	1.511628E-13	1.511628E-13	1.111111E-13	1.111111E-13	8.264463E-14	8.264463E-14	6.172839E-14	6.172839E-14	4.571429E-14	4.571429E-14	3.389831E-14	3.389831E-14	2.525253E-14	2.525253E-14	1.851852E-14	1.851852E-14	1.370370E-14	1.370370E-14	1.000000E-14	1.000000E-14	7.407407E-15	7.407407E-15	5.454545E-15	5.454545E-15	4.000000E-15	4.000000E-15	2.962963E-15	2.962963E-15	2.197531E-15	2.197531E-15	1.621621E-15	1.621621E-15	1.197531E-15	1.197531E-15	8.823530E-16	8.823530E-16	6.521739E-16	6.521739E-16	4.814815E-16	4.814815E-16	3.553333E-16	3.553333E-16	2.631579E-16	2.631579E-16	1.923077E-16	1.923077E-16	1.396825E-16	1.396825E-16	1.000000E-16	1.000000E-16	7.272727E-17	7.272727E-17	5.309573E-17	5.309573E-17	3.906250E-17	3.906250E-17	2.834505E-17	2.834505E-17	2.054794E-17	2.054794E-17	1.494790E-17	1.494790E-17	1.077519E-17	1.077519E-17	7.874064E-18	7.874064E-18	5.795775E-18	5.795775E-18	4.263441E-18	4.263441E-18	3.121695E-18	3.121695E-18	2.279221E-18	2.279221E-18	1.675570E-18	1.675570E-18	1.234568E-18	1.234568E-18	9.090909E-19	9.090909E-19	6.756757E-19	6.756757E-19	5.000000E-19	5.000000E-19	3.703704E-19	3.703704E-19	2.747253E-19	2.747253E-19	2.037037E-19	2.037037E-19	1.511628E-19	1.511628E-19	1.111111E-19	1.111111E-19	8.264463E-20	8.264463E-20	6.172839E-20	6.172839E-20	4.571429E-20	4.571429E-20	3.389831E-20	3.389831E-20	2.525253E-20	2.525253E-20	1.851852E-20	1.851852E-20	1.370370E-20	1.370370E-20	1.000000E-20	1.000000E-20	7.272727E-21	7.272727E-21	5.309573E-21	5.309573E-21	3.906250E-21	3.906250E-21	2.834505E-21	2.834505E-21	2.054794E-21	2.054794E-21	1.494790E-21	1.494790E-21	1.077519E-21	1.077519E-21	7.874064E-22	7.874064E-22	5.795775E-22	5.795775E-22	4.263441E-22	4.263441E-22	3.121695E-22	3.121695E-22	2.279221E-22	2.279221E-22	1.675570E-22	1.675570E-22	1.234568E-22	1.234568E-22	9.090909E-23	9.090909E-23	6.756757E-23	6.756757E-23	5.000000E-23	5.000000E-23	3.703704E-23	3.703704E-23	2.747253E-23	2.747253E-23	2.037037E-23	2.037037E-23	1.511628E-23	1.511628E-23	1.111111E-23	1.111111E-23	8.264463E-24	8.264463E-24	6.172839E-24	6.172839E-24	4.571429E-24	4.571429E-24	3.389831E-24	3.389831E-24	2.525253E-24	2.525253E-24	1.851852E-24	1.851852E-24	1.370370E-24	1.370370E-24	1.000000E-24	1.000000E-24	7.272727E-25	7.272727E-25	5.309573E-25	5.309573E-25	3.906250E-25	3.906250E-25	2.834505E-25	2.834505E-25	2.054794E-25	2.054794E-25	1.494790E-25	1.494790E-25	1.077519E-25	1.077519E-25	7.874064E-26	7.874064E-26	5.795775E-26	5.795775E-26	4.263441E-26	4.263441E-26	3.121695E-26	3.121695E-26	2.279221E-26	2.279221E-26	1.675570E-26	1.675570E-26	1.234568E-26	1.234568E-26	9.090909E-27	9.090909E-27	6.756757E-27	6.756757E-27	5.000000E-27	5.000000E-27	3.703704E-27	3.703704E-27	2.747253E-27	2.747253E-27	2.037037E-27	2.037037E-27	1.511628E-27	1.511628E-27	1.111111E-27	1.111111E-27	8.264463E-28	8.264463E-28	6.172839E-28	6.172839E-28	4.571429E-28	4.571429E-28	3.389831E-28	3.389831E-28	2.525253E-28	2.525253E-28	1.851852E-28	1.851852E-28	1.370370E-28	1.370370E-28	1.000000E-28	1.000000E-28	7.272727E-29	7.272727E-29	5.309573E-29	5.309573E-29	3.906250E-29	3.906250E-29	2.834505E-29	2.834505E-29	2.054794E-29	2.054794E-29	1.494790E-29	1.494790E-29	1.077519E-29	1.077519E-29	7.874064E-30	7.874064E-30	5.795775E-30	5.795775E-30	4.263441E-30	4.263441E-30	3.121695E-30	3.121695E-30	2.279221E-30	2.279221E-30	1.675570E-30	1.675570E-30	1.234568E-30	1.234568E-30	9.090909E-31	9.090909E-31	6.756757E-31	6.756757E-31	5.000000E-31	5.000000E-31	3.703704E-31	3.703704E-31	2.747253E-31	2.747253E-31	2.037037E-31	2.037037E-31	1.511628E-31	1.511628E-31	1.111111E-31	1.111111E-31	8.264463E-32	8.264463E-32	6.172839E-32	6.172839E-32	4.571429E-32	4.571429E-32	3.389831E-32	3.389831E-32	2.525253E-32	2.525253E-32	1.851852E-32	1.851852E-32	1.370370E-32	1.370370E-32	1.000000E-32	1.000000E-32	7.272727E-33	7.272727E-33	5.309573E-33	5.309573E-33	3.906250E-33	3.906250E-33	2.834505E-33	2.834505E-33	2.054794E-33	2.054794E-33	1.494790E-33	1.494790E-33	1.077519E-33	1.077519E-33	7.874064E-34	7.874064E-34	5.795775E-34	5.795775E-34	4.263441E-34	4.263441E-34	3.121695E-34	3.121695E-34	2.279221E-34	2.279221E-34	1.675570E-34	1.675570E-34	1.234568E-34	1.234568E-34	9.090909E-35	9.090909E-35	6.756757E-35	6.756757E-35	5.000000E-35	5.000000E-35	3.703704E-35	3.703704E-35	2.747253E-35	2.747253E-35	2.037037E-35	2.037037E-35	1.511628E-35	1.511628E-35	1.111111E-35	1.111111E-35	8.264463E-36	8.264463E-36	6.172839E-36	6.172839E-36	4.571429E-36	4.571429E-36	3.389831E-36	3.389831E-36	2.525253E-36	2.525253E-36	1.851852E-36	1.851852E-36	1.370370E-36	1.370370E-36	1.000000E-36	1.000000E-36	7.272727E-37	7.272727E-37	5.309573E-37	5.309573E-37	3.906250E-37	3.906250E-37	2.834505E-37	2.834505E-37	2.054794E-37	2.054794E-37	1.494790E-37	1.494790E-37	1.077519E-37	1.077519E-37	7.874064E-38	7.874064E-38	5.795775E-38	5.795775E-38	4.263441E-38	4.263441E-38	3.121695E-38	3.121695E-38	2.279221E-38	2.279221E-38	1.675570E-38	1.675570E-38	1.234568E-38	1.234568E-38	9.090909E-39	9.090909E-39	6.756757E-39	6.756757E-39	5.000000E-39	5.000000E-39	3.703704E-39	3.703704E-39	2.747253E-39	2.747253E-39	2.037037E-39	2.037037E-39	1.511628E-39	1.511628E-39	1.111111E-39	1.111111E-39	8.264463E-40	8.264463E-40	6.172839E-40	6.172839E-40	4.571429E-40	4.571429E-40	3.389831E-40	3.389831E-40	2.525253E-40	2.525253E-40	1.851852E-40	1.851852E-40	1.370370E-40	1.370370E-40	1.000000E-40	1.000000E-40	7.272727E-41	7.272727E-41	5.309573E-41	5.309573E-41	3.906250E-41	3.906250E-41	2.834505E-41	2.834505E-41	2.054794E-41	2.054794E-41	1.494790E-41	1.494790E-41	1.077519E-41	1.077519E-41	7.874064E-42	7.874064E-42	5.795775E-42	5.795775E-42	4.263441E-42	4.263441E-42	3.121695E-42	3.121695E-42	2.279221E-42	2.279221E-42	1.675570E-42	1.675570E-42	1.234568E-42	1.234568E-42	9.090909E-43	9.090909E-43	6.756757E-43	6.756757E-43	5.000000E-43	5.000000E-43	3.703704E-43	3.703704E-43	2.747253E-43	2.747253E-43	2.037037E-43	2.037037E-43	1.511628E-43	1.511628E-43	1.111111E-43	1.111111E-43	8.264463E-44	8.264463E-44	6.172839E-44	6.172839E-44	4.571429E-44	4.571429E-44	3.389831E-44	3.389831E-44	2.525253E-44	2.525253E-44	1.851852E-44	1.851852E-44	1.370370E-44	1.370370E-44	1.000000E-44	1.000000E-44

Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading/Excavation		Drainage/Utilities-Sub-Grade		Drainage/Utilities-Sub-Grade		Foundations/Concrete Pour		Building Construction_Footprint		Building Construction_Footprint		Building Construction_Sensor		Building Construction_Sensor		Building Construction_Apartment		Architectural Coatings		Paving		Child Risk								
			2023	2023	2023	2023	2023	2023	2023	2023	2024	2024	2024	2024	2025	2025	2024	2024	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	3rd Trimester	0-2	2-16	Total	per million				
3567253804390	356725		3804390	0.28937546	0.07016398	0.22429402	0.102728712	0.092618902	0.093045597	0.032380012	0.027797898	0.049673461	0.042712735	0.018856498	0.037077148	0.06906167	2.90808E-06	4.75809E-05	1.99322E-06	5.24822E-05	5.24822E-05	5.24822E-05	5.24822E-05	5.24822E-05	5.24822E-05	5.24822E-05	5.24822E-05	5.24822E-05	5.24822E-05	5.24822E-05	5.24822E-05	5.24822E-05	5.24822E-05	5.24822E-05	5.24822E-05	5.24822E-05	5.24822E-05
3567503804390	356750		3804390	0.238725088	0.06254008	0.198260593	0.091566383	0.082555089	0.079371516	0.027577503	0.0123712689	0.041422279	0.035617788	0.018671582	0.032165665	0.05768872	2.54057E-06	4.16213E-05	1.17376E-06	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05
3566003804415	356600		3804415	0.139908249	0.04011826	0.121780379	0.058738079	0.052957506	0.053085905	0.018444305	0.01589714	0.024075929	0.020207153	0.006672729	0.021513303	0.03720393	1.59424E-06	4.16213E-05	1.17376E-06	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05	4.58793E-05
3568253804400	356825		3804400	0.064919063	0.02609552	0.088276357	0.038207503	0.034446994	0.033334474	0.01581472	0.009958564	0.01163493	0.010004531	0.014629666	0.013508541	0.02193474	6.97017E-07	1.65636E-06	7.27743E-07	1.82577E-07	1.82577E-07	1.82577E-07	1.82577E-07	1.82577E-07	1.82577E-07	1.82577E-07	1.82577E-07	1.82577E-07	1.82577E-07	1.82577E-07	1.82577E-07	1.82577E-07	1.82577E-07	1.82577E-07	1.82577E-07	1.82577E-07	1.82577E-07
3562003804425	356200		3804425	0.003776042	0.0025381	0.008246127	0.003716093	0.003350382	0.003314068	0.01151449	0.009990907	0.00157822	0.000255402	0.000225653	0.001343041	0.000225653	8.72452E-08	1.5639E-06	7.49711E-08	1.72612E-06	1.72612E-06	1.72612E-06	1.72612E-06	1.72612E-06	1.72612E-06	1.72612E-06	1.72612E-06	1.72612E-06	1.72612E-06	1.72612E-06	1.72612E-06	1.72612E-06	1.72612E-06	1.72612E-06	1.72612E-06	1.72612E-06	1.72612E-06
3562253804425	356225		3804425	0.004339212	0.00283591	0.008909213	0.004152118	0.003734496	0.003732259	0.001296746	0.00115034	0.000868725	0.000746991	0.002247372	0.001512515	0.00254893	9.87042E-08	1.75353E-06	8.42078E-07	1.93562E-06	1.93562E-06	1.93562E-06	1.93562E-06	1.93562E-06	1.93562E-06	1.93562E-06	1.93562E-06	1.93562E-06	1.93562E-06	1.93562E-06	1.93562E-06	1.93562E-06	1.93562E-06	1.93562E-06	1.93562E-06	1.93562E-06	1.93562E-06
3562503804445	356250		3804445	0.005144006	0.00324236	0.010278728	0.004742216	0.00428003	0.004306793	0.004496364	0.001286679	0.001492489	0.00088128	0.002551884	0.001745347	0.00025298	1.12313E-07	2.00563E-06	9.87042E-08	4.22298E-06	4.22298E-06	4.22298E-06	4.22298E-06	4.22298E-06	4.22298E-06	4.22298E-06	4.22298E-06	4.22298E-06	4.22298E-06	4.22298E-06	4.22298E-06	4.22298E-06	4.22298E-06	4.22298E-06	4.22298E-06	4.22298E-06	4.22298E-06
3565503804415	356550		3804415	0.080523907	0.02496008	0.079126869	0.036544635	0.032948179	0.03360549	0.011675982	0.01003983	0.014609853	0.012562579	0.010732674	0.013618777	0.02876656	9.7438E-07	1.65333E-05	7.43346E-07	1.82491E-05	1.82491E-05	1.82491E-05	1.82491E-05	1.82491E-05	1.82491E-05	1.82491E-05	1.82491E-05	1.82491E-05	1.82491E-05	1.82491E-05	1.82491E-05	1.82491E-05	1.82491E-05	1.82491E-05	1.82491E-05	1.82491E-05	1.82491E-05
356753804415	356753		3804415	0.107226936	0.03099899	0.098271032	0.04538634	0.040919748	0.041423745	0.014392377	0.012375578	0.019388663	0.016677018	0.011830597	0.01678716	0.03628442	1.2295E-06	2.06801E-05	9.18737E-07	2.28284E-05	2.28284E-05	2.28284E-05	2.28284E-05	2.28284E-05	2.28284E-05	2.28284E-05	2.28284E-05	2.28284E-05	2.28284E-05	2.28284E-05	2.28284E-05	2.28284E-05	2.28284E-05	2.28284E-05	2.28284E-05	2.28284E-05	2.28284E-05
3566003804415	356600		3804415	0.137554505	0.03705107	0.117456959	0.054274334	0.048908708	0.050088515	0.017392569	0.014955354	0.024664196	0.02120801	0.012910315	0.020286561	0.04323831	1.49473E-06	2.49931E-05	1.10556E-06	2.75994E-06	2.75994E-06	2.75994E-06	2.75994E-06	2.75994E-06	2.75994E-06	2.75994E-06	2.75994E-06	2.75994E-06	2.75994E-06	2.75994E-06	2.75994E-06	2.75994E-06	2.75994E-06	2.75994E-06	2.75994E-06	2.75994E-06	2.75994E-06
3566253804415	356625		3804415	0.165863784	0.04202383	0.133221285	0.061528066	0.055472923	0.058147168	0.020202808	0.017371795	0.029349058	0.025236384	0.019329352	0.023564402	0.0480331	1.71726E-06	2.86916E-05	1.27068E-06	3.1684E-05	3.1684E-05	3.1684E-05	3.1684E-05	3.1684E-05	3.1684E-05	3.1684E-05	3.1684E-05	3.1684E-05	3.1684E-05	3.1684E-05	3.1684E-05	3.1684E-05	3.1684E-05	3.1684E-05	3.1684E-05	3.1684E-05	3.1684E-05
3566503804415	356650		3804415	0.186540686	0.04558043	0.144496172	0.066735359	0.060167752	0.064233574	0.022317486	0.019190144	0.032466851	0.027919002	0.014797187	0.026030946	0.05044751	1.88529E-06	3.13345E-05	1.38663E-06	3.46064E-05	3.46064E-05	3.46064E-05	3.46064E-05	3.46064E-05	3.46064E-05	3.46064E-05	3.46064E-05	3.46064E-05	3.46064E-05	3.46064E-05	3.46064E-05	3.46064E-05	3.46064E-05	3.46064E-05	3.46064E-05	3.46064E-05	3.46064E-05
3566753804415	356675		3804415	0.195340014	0.04755122	0.150743847	0.069620837	0.062769263	0.067182973	0.023342233	0.020071293	0.033446162	0.028759362	0.015460128	0.027226020	0.05060426	1.96878E-06	3.26449E-05	1.43523E-06	3.60489E-05	3.60489E-05	3.60489E-05	3.60489E-05	3.60489E-05	3.60489E-05	3.60489E-05	3.60489E-05	3.60489E-05	3.60489E-05	3.60489E-05	3.60489E-05	3.60489E-05	3.60489E-05	3.60489E-05	3.60489E-05	3.60489E-05	3.60489E-05
3567003804415	356700		3804415	0.189568677	0.04756065	0.150737753	0.069634639	0.062781715	0.066166653	0.02298912	0.019767662	0.032244898	0.027726431	0.015849596	0.026814335	0.04846395	1.95358E-06	3.23672E-05	1.40753E-06	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05
3567253804415	356725		3804415	0.170117881	0.04518341	0.143237566	0.066154072	0.059643671	0.061222023	0.021271144	0.018290426	0.029046788	0.024976471	0.015922158	0.024810501	0.04393223	1.82917E-06	3.03463E-05	1.30526E-06	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05	3.34808E-05
3568253804425	356825		3804425	0.050960168	0.02104355	0.066710929	0.03081035	0.027772242	0.02938868	0.008073047	0.009187758	0.007840949	0.012326805	0.010950885	0.01791453	7.73758E-07	1.33327E-05	5.93121E-07	1.46996E-05	1.46996E-05	1.46996E-05	1.46996E-05	1.46996E-05	1.46996E-05	1.46996E-05	1.46996E-05	1.46996E-05	1.46996E-05	1.46996E-05	1.46996E-05	1.46996E-05	1.46996E-05	1.46996E-05	1.46996E-05	1.46996E-05	1.46996E-05	1.46996E-05
3568503804425	356850		3804425	0.038601927	0.01799458	0.057045264	0.026364276	0.023753468	0.022658444	0.00794457	0.0068313	0.007174405	0.006169598	0.013417479	0.009266487	0.01506964	5.60286E-07	1.12846E-05	5.06105E-07	1.2441E-05	1.2441E-05	1.2441E-05	1.2441E-05	1.2441E-05	1.2441E-05	1.2441E-05	1.2441E-05	1.2441E-05	1.2441E-05	1.2441E-05	1.2441E-05	1.2441E-05	1.2441E-05	1.2441E-05	1.2441E-05	1.2441E-05	1.2441E-05
35684253804425	356842		3804425	0.030506886	0.01554382	0.04927602	0.022758062	0.02051838	0.019587456	0.006805149	0.005851863	0.005478137	0.004997123	0.010319929	0.007937905	0.01286024	5.54108E-07	9.66971E-06	3.64617E-07	1.06604E-05	1.06604E-05	1.06604E-05	1.06604E-05	1.06604E-05	1.06604E-05	1.06604E-05	1.06604E-05	1.06604E-05	1.06604E-05	1.06604E-05	1.06604E-05	1.06604E-05	1.06604E-05	1.06604E-05	1.06604E-05	1.06604E-05	1.06604E-05
3569003804425	356900		3804425	0.024486322	0.01350927	0.048262928	0.019797324	0.017832706	0.016937506	0.005884813	0.005600176	0.0040472162	0.004046744	0.009373112	0.006864001	0.01109528	4.76142E-07	8.35152E-06																			



Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading/Excavation		Drainage/Utilities Sub-Grade		Drainage/Utilities Sub-Grade		Foundations/Concrete Pour		Building Construction Footprint		Building Construction Footprint		Building Construction Senior		Building Construction Senior		Building Construction Apartment		Architectural Coatings		Paving		Child Risk									
			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	
3569503804525	356950		3804525	0.011208704	0.00671731	0.021294781	0.009834965	0.00886708	0.008443048	0.00293475	0.00252408	0.002194361	0.001886866	0.00495256	0.003421583	0.0058778	2.34162E-07	4.13204E-07	1.90948E-07	4.55715E-06	4.55715																	
3569753804525	356975		3804525	0.009967578	0.00616808	0.019528294	0.009091116	0.00813152	0.00772138	0.002682737	0.00230680	0.001964737	0.001689419	0.004581269	0.003129124	0.00510396	2.19032E-07	3.78009E-06	1.74955E-07	4.16894E-06	4.16894																	
3570003804525	357000		3804525	0.008940631	0.00568564	0.018024253	0.008324416	0.007505242	0.00710016	0.002470323	0.002124157	0.001773735	0.001525182	0.004782817	0.002881366	0.00469508	1.93672E-07	3.48041E-06	1.61387E-07	3.89522E-06	3.89522																	
3570253804525	357025		3804525	0.008037	0.00525466	0.016653761	0.007693811	0.006936075	0.006556584	0.002278037	0.001958817	0.001603442	0.001379526	0.003995071	0.002657085	0.00432595	1.81207E-07	3.2108E-06	1.49078E-07	3.5411E-06	3.54109																	
3570503804525	357050		3804525	0.007236841	0.00485695	0.015397261	0.00711118	0.00641135	0.00604689	0.002100948	0.001806542	0.001452958	0.001249356	0.003729401	0.002450529	0.00386668	1.66983E-07	2.96208E-06	1.37734E-07	3.2668E-06	3.26679																	
3570753804525	357075		3804525	0.006544607	0.00450238	0.014273175	0.006592040	0.005943305	0.005593018	0.001943253	0.001670946	0.001320808	0.001135724	0.003488580	0.002266596	0.00368526	1.54535E-07	2.74073E-06	1.2761E-07	3.02269E-06	3.02269																	
3571003804525	357100		3804525	0.005946575	0.00418799	0.013276497	0.006131702	0.005528291	0.005191132	0.003803621	0.003155088	0.002120579	0.001803653	0.002373353	0.001548216	0.00210373	1.43197E-07	2.54482E-06	1.18636E-07	2.80665E-06	2.80664																	
3571253804525	357125		3804525	0.00542486	0.00390531	0.012380363	0.005717853	0.005155144	0.004830299	0.001678252	0.001443079	0.001104288	0.000949545	0.003076733	0.0019575	0.00317959	1.33207E-07	2.36903E-06	1.10564E-07	2.6128E-06	2.61279																	
3571503804525	357150		3804525	0.004962649	0.00364979	0.011570336	0.005343744	0.004817852	0.00450457	0.003156508	0.002134766	0.001013902	0.000871824	0.002896888	0.001825497	0.00296391	1.24205E-07	2.21036E-06	1.03262E-07	2.43783E-06	2.43782																	
3571753804525	357175		3804525	0.004522423	0.00340663	0.010799496	0.004987732	0.004496876	0.004192461	0.003145664	0.002125252	0.000927041	0.000797135	0.002726797	0.001699014	0.0027575	1.15636E-07	2.05902E-06	9.62922E-08	2.27095E-06	2.27095																	
3572003804525	357200		3804525	0.004023043	0.00310232	0.009834786	0.004542182	0.004095174	0.003795755	0.002131807	0.001134003	0.000819998	0.000705083	0.002509371	0.001538247	0.00249774	1.05051E-07	1.86923E-06	8.74702E-08	2.06175E-06	2.06175																	
3572253804525	357225		3804525	0.003637706	0.00275523	0.00873447	0.004034003	0.003637006	0.003343035	0.002116153	0.000998751	0.00073662	0.000633656	0.002181155	0.00135478	0.00220534	9.34713E-08	1.65844E-06	7.68678E-08	1.82878E-06	1.82877																	
3572503804525	357250		3804525	0.003418891	0.00263764	0.008361682	0.003861831	0.003481778	0.003193791	0.002109659	0.000954163	0.000695233	0.00059781	0.002097016	0.001294298	0.00210423	8.93114E-08	1.58548E-06	7.34872E-07	1.74827E-06	1.74827																	
3572753804525	357275		3804525	0.003289086	0.00264333	0.008379728	0.003870166	0.003489292	0.003220647	0.002111899	0.000962186	0.00079255	0.000584072	0.002153323	0.001305182	0.00211757	8.91362E-08	1.58842E-06	7.43164E-08	1.75188E-06	1.75187																	
3573003804525	357300		3804525	0.003120895	0.00252704	0.008011066	0.0036999	0.003353783	0.003075239	0.002106849	0.000918745	0.00066413	0.000555733	0.002059434	0.001246255	0.00202078	8.51516E-08	1.51768E-06	7.09685E-08	1.67389E-06	1.67379																	
3573253804525	357325		3804525	0.002913577	0.00238944	0.007757488	0.003498438	0.003154147	0.002900481	0.00107751	0.000666535	0.000460389	0.000519266	0.001952152	0.001175433	0.0019057	8.04148E-08	1.43325E-06	6.6992E-08	1.58065E-06	1.58052																	
3573503804525	357350		3804525	0.00270867	0.00224729	0.007124213	0.003293008	0.00296665	0.002719777	0.00094967	0.000612549	0.000506519	0.000482894	0.001838758	0.001102202	0.00178731	7.5546E-08	1.34626E-06	6.28677E-08	1.48461E-06	1.48460																	
3573753804525	357375		3804550	0.001760226	0.00120489	0.003819655	0.001764102	0.001590492	0.001523136	0.000645504	0.000437121	0.00028996	0.0009551	0.000617258	0.00102849	0.00102849	4.88888E-08	7.33825E-07	3.64231E-08	8.09537E-07	8.09537																	
3574003804525	357400		3804550	0.001836006	0.00131044	0.004545287	0.001918652	0.001729832	0.001662405	0.000577591	0.000496653	0.000370088	0.000318228	0.001038235	0.000673697	0.00112375	4.47407E-08	7.9921E-07	3.7766E-08	8.81177E-07	8.81177																	
3574253804525	357425		3804550	0.001991772	0.00140136	0.004425147	0.002185949	0.001849849	0.001785944	0.000620513	0.000533561	0.000400779	0.000346418	0.001109106	0.000737362	0.00120917	4.7921E-08	8.56249E-07	4.05386E-08	9.47408E-07	9.47408																	
3574503804525	357450		3804550	0.002187593	0.00151652	0.004807568	0.002220368	0.002001856	0.001941903	0.0006747	0.000580154	0.000439363	0.000377795	0.001198964	0.000786655	0.00131683	5.19451E-08	9.2896E-07	4.40036E-08	1.02438E-06	1.02438																	
3574753804525	357475		3804550	0.002458887	0.00167884	0.005321168	0.002458887	0.002216126	0.00216059	0.000750681	0.000545488	0.000439263	0.000423854	0.001326012	0.000875589	0.00146747	5.76047E-08	1.02866E-06	4.89566E-08	1.13642E-06	1.13641																	
3575003804525	357500		3804550	0.00274724	0.00184051	0.005824667	0.002694733	0.002429537	0.002382538	0.00089775	0.000711797	0.000549443	0.000474745	0.001451111	0.000965534	0.00162155	6.32903E-08	1.1318E-06	5.39278E-08	1.24902E-06	1.24902																	
3575253804525	357525		3804550	0.003024653	0.00198331	0.006287374	0.002903815	0.002618043	0.002583193	0.000887912	0.000771744	0.000603991	0.000518838	0.00158783	0.001046851	0.00176229	6.83733E-08	1.22292E-06	5.89391E-08	1.34969E-06	1.34969																	
3575503804525	357550		3804550	0.003388665	0.00216987	0.006878781	0.003176956	0.002864303	0.002844467	0.000988289	0.000849801	0.000674044	0.000579591	0.001698575	0.001152733	0.00194583	7.50179E-08	1.3419E-06	6.42083E-08	1.48112E-06	1.48112																	
3575753804525	357575		3804550	0.003986512	0.00248004	0.007862054	0.003631079	0.003373734	0.003275127	0.001137919	0.000978463	0.000790025	0.000679319	0.001930956	0.00132726	0.00224764	8.6046E-08	1.53990E-06	7.38103E-08	1.69895E-06	1.69895																	
3576003804525	357600		3804550	0.004578425	0.00275995	0.008749422	0.004640909	0.004364322	0.0041725485	0.001275485	0.001096752	0.000905915	0.000776906	0.002132527	0.001487716	0.00252861	9.61382E-08	1.71911E-06	8.25775E-08	1.89782E-06	1.89782																	

Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading/Excavation		Drainage/Utilities-Sub-Grade		Drainage/Utilities-Sub-Grade		Foundations/Concrete Pour		Building Construction_Footprint		Building Construction_Footprint		Building Construction_Sensor		Building Construction_Sensor		Building Construction_Apartment		Architectural Coatings		Paving		Child Risk			
			2023	2023	2023	2023	2023	2023	2023	2024	2024	2024	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025
356253804575	356253		3804575	0.028424064	0.01048599	0.03324203	0.015352785	0.013841876	0.014616354	0.005078345	0.004366718	0.005155528	0.004433086	0.006079734	0.005923343	0.01064232	3.94848E-07	6.85331E-06	3.19319E-07	7.56748E-06	7.56748											
356053804575	356550		3804575	0.030708455	0.01133007	0.035283854	0.016265799	0.014692086	0.015511244	0.005389268	0.004634072	0.005545732	0.004676811	0.006347745	0.006286002	0.0125088	4.20546E-07	7.28472E-06	3.38292E-07	8.04356E-06	8.04356											
356053804575	356575		3804575	0.03246528	0.01165054	0.036933813	0.017057828	0.015379123	0.016221785	0.005843443	0.004684635	0.005843443	0.005024603	0.006578005	0.006573952	0.01169228	4.10702E-07	7.62944E-06	3.52921E-07	8.42378E-06	8.42378											
356003804575	356600		3804575	0.033517631	0.01201292	0.038082597	0.017588395	0.015857473	0.01669497	0.005800034	0.004987727	0.00602023	0.005176617	0.006761179	0.006765115	0.01193209	4.65052E-07	7.86259E-06	3.6315E-07	8.80665E-06	8.80665											
356053804575	356625		3804575	0.033690087	0.01218122	0.038260896	0.017837007	0.016081619	0.016868255	0.005860752	0.004939487	0.005060001	0.005202217	0.006888849	0.006883597	0.01194213	4.54057E-07	7.95259E-06	3.66818E-07	8.78659E-06	8.78659											
356053804575	356650		3804575	0.032937586	0.01214727	0.038508492	0.017785094	0.016034815	0.016726876	0.005811631	0.004997249	0.005927047	0.005096492	0.006951778	0.006778642	0.01172441	4.54731E-07	7.91100E-06	3.6957E-07	8.73242E-06	8.73242											
356053804575	356675		3804575	0.031329667	0.01191078	0.037758792	0.017438846	0.015722642	0.016280486	0.005565636	0.004863887	0.005565636	0.004863887	0.006947227	0.006597974	0.01130169	4.45932E-07	7.7227E-06	3.65844E-07	8.52347E-06	8.52347											
3567003804575	356700		3804575	0.029054362	0.01149749	0.036448622	0.016833745	0.015177091	0.015575891	0.00541173	0.004653386	0.0052881	0.00454708	0.006874144	0.0063122	0.01071688	4.27272E-07	7.41403E-06	3.40442E-07	8.18174E-06	8.18174											
356753804575	356725		3804575	0.026367945	0.01094596	0.034700181	0.016026231	0.014449046	0.014682535	0.00510134	0.004386449	0.004844149	0.004162992	0.006375392	0.005950164	0.01002348	4.03308E-07	7.01488E-06	3.22131E-07	7.74032E-06	7.74032											
356753804575	356750		3804575	0.023538742	0.01030269	0.032660935	0.01359991	0.013678109	0.004752359	0.004086413	0.004365043	0.004365043	0.003753371	0.006536692	0.005543116	0.00927621	3.76174E-07	6.55979E-06	3.01437E-07	7.23747E-06	7.237399											
356753804575	356775		3804575	0.020799104	0.00961502	0.030480927	0.014077574	0.012692162	0.012636468	0.004390449	0.003775216	0.003896293	0.003350307	0.006287407	0.005120986	0.00852399	3.47931E-07	6.08256E-06	2.79821E-07	6.71031E-06	6.710313											
3568003804575	356800		3804575	0.018296825	0.00891954	0.028276169	0.01305931	0.011774108	0.011611708	0.004034403	0.003469064	0.003469064	0.002975312	0.005997679	0.004705697	0.00779998	3.20087E-07	5.60847E-06	2.58353E-07	6.18691E-06	6.186907											
3568253804575	356825		3804575	0.016113868	0.008247	0.026144113	0.012074622	0.010886326	0.010645649	0.003698753	0.003180448	0.00307232	0.002641797	0.005681943	0.004314197	0.00712829	2.93797E-07	5.15756E-06	2.37896E-07	5.68925E-06	5.689252											
3568503804575	356850		3804575	0.014248934	0.00761251	0.02413271	0.011456599	0.010048784	0.00975517	0.00389363	0.002914412	0.002735106	0.002315837	0.005352553	0.003953327	0.00651617	2.69517E-07	4.73855E-06	2.18822E-07	5.22689E-06	5.226889											
3568753804575	356875		3804575	0.012545515	0.00697705	0.022118214	0.010215266	0.009209954	0.008883299	0.003086437	0.002653936	0.002423449	0.002038352	0.004994164	0.003599997	0.00592134	2.4564E-07	4.3249E-06	1.9931E-07	4.77037E-06	4.770367											
3569003804575	356900		3804575	0.011261553	0.00645886	0.020475473	0.009455669	0.008529523	0.008185035	0.002445326	0.00218545	0.001879255	0.00468376	0.003317023	0.00544767	2.26451E-07	3.99188E-06	1.84655E-07	4.4022E-06	4.4022												
3569253804575	356925		3804575	0.01049677	0.00598393	0.018969889	0.008761237	0.007899001	0.007554871	0.002624885	0.002257061	0.001978722	0.001701444	0.00438727	0.003061646	0.00502152	2.09038E-07	3.68793E-06	1.7076E-07	4.06773E-06	4.067726											
3569503804575	356950		3804575	0.009158148	0.00554088	0.017565359	0.008112516	0.00731416	0.006973624	0.00242935	0.00208341	0.001794004	0.00154261	0.004102614	0.002826093	0.00462953	1.92917E-07	3.407E-06	1.57879E-07	3.57579E-06	3.575799											
3569753804575	356975		3804575	0.00829012	0.00513898	0.016291281	0.007524106	0.006783638	0.006540693	0.002421426	0.001927181	0.001631968	0.001403281	0.003839154	0.002614173	0.00427768	1.78378E-07	3.15342E-06	1.46249E-07	3.47805E-06	3.47805											
3570003804575	357000		3804575	0.007532612	0.00477823	0.015147653	0.006995293	0.006307435	0.005984161	0.002079153	0.001787802	0.001491214	0.001281314	0.003599621	0.002425108	0.00396458	1.65385E-07	2.92664E-06	1.35853E-07	3.22787E-06	3.227873											
3570253804575	357025		3804575	0.006864114	0.00445196	0.014113355	0.006518224	0.005876748	0.005564052	0.001933189	0.001562292	0.00136445	0.00117325	0.00381025	0.002254857	0.0036831	1.53678E-07	2.7221E-06	1.26481E-07	3.00226E-06	3.002257											
3570503804575	357050		3804575	0.006271089	0.00415611	0.013175437	0.006085057	0.00548621	0.005184035	0.001801155	0.001486776	0.001252445	0.001076915	0.003181025	0.002100853	0.0034288	1.43099E-07	2.53701E-06	1.17997E-07	2.9281E-06	2.928101											
3570753804575	357075		3804575	0.005748714	0.00389035	0.012328297	0.005695945	0.005135392	0.004843151	0.001682718	0.001446919	0.001153179	0.000991584	0.00300014	0.001962709	0.00302118	1.33623E-07	2.37099E-06	1.10384E-07	2.615E-06	2.615001											
3571003804575	357100		3804575	0.005285309	0.00365012	0.011571367	0.00534422	0.004818281	0.004535071	0.001575767	0.001354878	0.001066432	0.000915445	0.00283512	0.001837858	0.00299566	1.2508E-07	2.2211E-06	1.035E-07	2.44969E-06	2.449688											
3571253804575	357125		3804575	0.004876978	0.00343559	0.010891275	0.00503012	0.004535093	0.004259986	0.001480101	0.001272695	0.000986123	0.000847938	0.002687395	0.001726379	0.00281224	1.17467E-07	2.08734E-06	9.73549E-08	2.30216E-06	2.302163											
3571503804575	357150		3804575	0.004462527	0.00322268	0.010216339	0.004718402	0.004254051	0.003986052	0.001384924	0.001190855	0.000905699	0.000778784	0.002545002	0.001615365	0.00262984	1.09886E-07	1.95413E-06	9.12698E-08	2.15528E-06	2.155281											
3571753804575	357175		3804575	0.003969452	0.00297611	0.009434671	0.004357319	0.003925857	0.003663009	0.001272686	0.001094345	0.000800863	0.000694804	0.002385183	0.001484451	0.00241619	1.010707E-07	1.79858E-06	8.41696E-08	1.98382E-06	1.983818											
3572003804575	357200		3804575	0.003651985	0.00277264	0.00878964	0.004059488	0.003659978	0.003399625	0.001181175	0.000915657	0.000741096	0.000637247	0.002232127	0.001377713	0.00224179	9.40383E-08	1.67255E-06	7.82438E-08	1.84483E-06	1.844831											
3572253804575	357225		3804575	0.003444667	0.00265765	0.008425102	0.003891922	0.003508186	0.003257286	0.00113172	0.000973133	0.000703701	0.000605901	0.00214932	0.001320203	0.00214716	8.99884E-08	1.62075E-06	7.50193E-08	1.76707E-06	1.767075											
3572503804575	357250		3804575	0.003340637	0.00256917	0.008144609	0.003761577	0.003391319	0.00315012	0.001094796	0.000941383	0.000685271	0.000589244	0.002065676	0.001276962	0.00207578	8.7021E-08	1.54969E-06	7.24508E-08	1.70916E-06	1.70916											
3572753804575	357275		3804575	0.003134988	0.00243238	0.007710979	0.00351028	0.003210828	0.002978365	0.001034811	0.000898803	0.000644197	0.000559326	0.001958264	0.001206996	0.00196158	8.23134E-08	1.4666E-06	6.80599E-08	1.61682E-06	1.616823											
3573003804575	357300		3804575	0.002936015	0.00230698	0.007313442	0.003377103	0.003045294	0.00281857	0.000979291	0.000842064	0.000606349	0.000519662	0.001862555	0.001142238	0.00185603	7.79659E-08	1.3888E-06	6.48881E-08	1.53166E-06	1.531665											
3573253804575	357325		3804575	0.002760036	0.00219524	0.006959217	0.002897796	0.002676231	0.002599837	0.000799539	0.000650495	0.000489219	0.00176789	0.001084555	0.00176178	7.41025E-08	1.32003E-06	6.16582E-08	1.45579E-06	1.455787												
3573503804575	357350		3804575	0.002599448	0.00209291	0.006623127	0.002761657	0.002544635	0.002443815	0.000760224	0.000534692	0.000461314	0.001697405	0.001031225	0.00107479	7.05386E-08	1.25657E-06	5.86703E-08	1.38578E-06	1.385777												
356003804600	356000		3804600	0.001723075	0.00122001	0.006367609	0.001786249	0.001610459	0.001548842	0.000538134	0.000462725	0.000364678	0.000298098	0.000965023	0.000627675	0.00104741	4.16920E-08	7.4449E-07	3.51817E-08	8.21362E-07	8.21362											
3560253804600	356025		3804600	0.001903319	0.0013337	0.004228019	0.001952705	0.001760534	0.001699045	0.000590321	0.000507599	0.000382644	0.00032887	0.00105346	0.000688546	0.00115043	4.5628E-08	8.149														









Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading/Excavation		Drainage/Utilities Sub-Grade		Drainage/Utilities es/Sub-Grade		Foundations/Concrete Pour		Building Construction_Footprint		Building Construction_Footprint		Building Construction_Sensor		Building Construction_Sensor		Building Construction_Sensor		Architectural Coatings		Paving		Child Risk			Total	per million		
			2023		2024		2023		2024		2023		2024		2023		2024		2023		2024		2023		2024		2023		2024		3rd Trimester			0-2	2-16
3564753804750	356475	3804750	0.011602385	0.00252477	0.016635194	0.007682941	0.006926842	0.007122293	0.002474589	0.002172825	0.002171449	0.001867164	0.003506123	0.002886341	0.00497427	1.90559E-07	3.34976E-06	1.57557E-07	3.69788E-06	3.697879															
3565003804750	356500	3804750	0.01194229	0.00538149	0.017060059	0.007879164	0.007103755	0.007295516	0.002534774	0.002179577	0.002232523	0.001919681	0.003682456	0.002956541	0.00508541	1.95543E-07	3.45232E-06	1.61346E-07	3.79211E-06	3.792114															
3565253804750	356525	3804750	0.012164258	0.00548201	0.017378707	0.008026332	0.007236439	0.007419439	0.002577783	0.002216599	0.002272908	0.001956406	0.003630671	0.003006761	0.00515857	1.99193E-07	3.49791E-06	1.64066E-07	3.86117E-06	3.861173															
3565503804750	356550	3804750	0.012253267	0.00554495	0.017578249	0.00811849	0.007319527	0.00748773	0.002601557	0.002237002	0.002290111	0.001969199	0.003680848	0.003034437	0.00518995	2.01344E-07	3.53501E-06	1.65609E-07	3.90196E-06	3.901965															
3565753804750	356575	3804750	0.012200789	0.00556772	0.017850435	0.008151829	0.007349585	0.007496938	0.002604756	0.002239753	0.002282678	0.001962807	0.003714446	0.003038168	0.00517826	2.01895E-07	3.54482E-06	1.65899E-07	3.91261E-06	3.912611															
3566003804750	356600	3804750	0.012009975	0.00555048	0.017595778	0.008126586	0.007326827	0.007480022	0.002587761	0.002225139	0.002251921	0.001935758	0.003723299	0.003018344	0.00512491	2.00859E-07	3.52759E-06	1.64955E-07	3.89426E-06	3.894204															
3566253804750	356625	3804750	0.011685646	0.00549225	0.01741119	0.008041334	0.007249965	0.007340213	0.002505303	0.002191293	0.002251644	0.001888645	0.003710639	0.003050366	1.9822E-07	3.48293E-06	1.62759E-07	3.84396E-06	3.843905																
3566503804750	356650	3804750	0.011245606	0.00539662	0.017108011	0.007901311	0.007123722	0.007178883	0.00249425	0.002144732	0.002121255	0.001824005	0.003679986	0.002909275	0.00490047	1.94134E-07	3.41338E-06	1.59427E-07	3.76694E-06	3.766937															
3566753804750	356675	3804750	0.010713218	0.00526731	0.016698099	0.007711994	0.006953036	0.006971113	0.002422068	0.002082665	0.002029528	0.001745131	0.003630441	0.002825082	0.00474029	1.87777E-07	3.32188E-06	1.55101E-07	3.66576E-06	3.665755															
3567003804750	356700	3804750	0.010117967	0.00511085	0.01620208	0.007482908	0.006746495	0.006726738	0.002337156	0.002009651	0.001926077	0.001656176	0.003563731	0.002726041	0.00455751	1.82426E-07	3.21299E-06	1.49981E-07	3.54546E-06	3.545398															
3567253804750	356725	3804750	0.009486	0.00493226	0.015639538	0.007221436	0.006510755	0.006454146	0.002242446	0.001928213	0.00181523	0.001560863	0.003481026	0.002615572	0.00435847	1.75305E-07	3.09043E-06	1.44238E-07	3.40997E-06	3.409975															
3567503804750	356750	3804750	0.008843277	0.00473741	0.015018235	0.006936151	0.006253546	0.006162372	0.002141071	0.001841043	0.001701319	0.001462913	0.003384146	0.002497329	0.00414952	1.67661E-07	2.95833E-06	1.38058E-07	3.26405E-06	3.264046															
3567753804750	356775	3804750	0.008220952	0.0045354	0.014377844	0.006640388	0.005986889	0.005865418	0.002037896	0.001752327	0.001589668	0.001366908	0.003277384	0.002376987	0.003939994	1.59853E-07	2.8289E-06	1.31727E-07	3.11447E-06	3.114474															
3568003804750	356800	3804750	0.007620695	0.00432575	0.01371322	0.006333432	0.005710142	0.005562517	0.001932656	0.001661833	0.001480866	0.0012713176	0.003159438	0.002254235	0.00372895	1.51873E-07	2.68389E-06	1.25224E-07	2.96099E-06	2.960988															
3568253804750	356825	3804750	0.007064015	0.00411691	0.013051174	0.006027607	0.005434468	0.005266138	0.001829681	0.001573289	0.001378205	0.001185077	0.003035771	0.002134126	0.00352445	1.44035E-07	2.54688E-06	1.18841E-07	2.80973E-06	2.80973															
3568503804750	356850	3804750	0.006558515	0.003913993	0.01240769	0.005737647	0.005166523	0.004982421	0.001731106	0.001488526	0.001284102	0.001104161	0.002909762	0.002019148	0.00333036	1.36511E-07	2.41891E-06	1.12635E-07	2.66412E-06	2.664117															
3568753804750	356875	3804750	0.006098447	0.00371664	0.011782253	0.005441617	0.004906093	0.00471098	0.001636796	0.001407432	0.001197471	0.00102967	0.002782194	0.001909146	0.00314567	1.29283E-07	2.29792E-06	1.06679E-07	2.52388E-06	2.523878															
3569003804750	356900	3804750	0.005683255	0.003521582	0.011183627	0.005165143	0.004656827	0.004455078	0.001547884	0.001339098	0.001181895	0.000961932	0.002656055	0.00180544	0.00297242	1.22432E-07	2.16732E-06	1.01027E-07	2.30078E-06	2.30078															
3569253804750	356925	3804750	0.005308117	0.00338441	0.010614907	0.00490248	0.004420014	0.004215098	0.001464505	0.001259284	0.001104703	0.000900356	0.002533038	0.001708187	0.00281034	1.15975E-07	2.05552E-06	9.96593E-08	2.26522E-06	2.265227															
3569503804750	356950	3804750	0.004967285	0.0031786	0.010076608	0.004653867	0.004195868	0.003990656	0.001386524	0.001192231	0.000981832	0.000844248	0.002414312	0.001617231	0.00265906	1.09901E-07	1.94652E-06	9.60838E-08	2.1471E-06	2.147104															
3569753804750	356975	3804750	0.004656308	0.00301872	0.009569761	0.004419758	0.003984818	0.003781176	0.001313742	0.001129648	0.000922175	0.000792951	0.002301048	0.001532339	0.00251800	1.04209E-07	1.84619E-06	8.59902E-08	2.03639E-06	2.03639															
3570003804750	357000	3804750	0.004365544	0.00286551	0.00908405	0.004195481	0.003782572	0.003582248	0.001244626	0.001070217	0.000866638	0.000744981	0.002191555	0.001451722	0.00238418	9.87743E-08	1.75045E-06	8.15202E-08	1.93074E-06	1.93074															
3570253804750	357025	3804750	0.00410445	0.00272563	0.008640628	0.003990662	0.00359793	0.003401543	0.001181841	0.001016123	0.00081631	0.00070192	0.002091034	0.001378491	0.00226275	9.38244E-08	1.66325E-06	7.74535E-08	1.83453E-06	1.834528															
3570503804750	357050	3804750	0.003871171	0.00259509	0.008239482	0.003805393	0.003430894	0.003239063	0.001125389	0.000967688	0.000771519	0.000663406	0.002000267	0.001312645	0.00215364	8.93535E-08	1.58455E-06	7.43575E-08	1.7477E-06	1.747698															
3570753804750	357075	3804750	0.003650872	0.00247857	0.007857413	0.003628935	0.003271802	0.003084639	0.001071735	0.000921553	0.000729219	0.000627033	0.00191366	0.001250064	0.00204999	8.51007E-08	1.50968E-06	7.03175E-08	1.6651E-06	1.665095															
3571003804750	357100	3804750	0.003444852	0.00236505	0.007497516	0.003467217	0.003121942	0.002939231	0.001021214	0.000878112	0.000689639	0.000591	0.001831996	0.001191137	0.00195244	8.10987E-08	1.43919E-06	6.70447E-08	1.58734E-06	1.587338															
3571253804750	357125	3804750	0.003255151	0.00225965	0.007163399	0.003200806	0.002982817	0.002890748	0.000974493	0.0008387937	0.000653086	0.000561569	0.001756613	0.001136641	0.00186225	7.73876E-08	1.37697E-06	6.40416E-08	1.51525E-06	1.515247															
3571503804750	357150	3804750	0.003079542	0.00216157	0.006852485	0.003164811	0.002853353	0.002679492	0.000930997	0.000800513	0.000619177	0.000532412	0.001688831	0.001085876	0.0017817	7.39367E-08	1.31303E-06	6.11978E-08	1.44817E-06	1.448166															
3571753804750	357175	3804750	0.002901153	0.00205959	0.006529196	0.00303515	0.002718737	0.002549623	0.000885848	0.000761714	0.000584616	0.000502694	0.001611839	0.001033246	0.00169128	7.03597E-08	1.24996E-06	5.82719E-08	1.37857E-06	1.378573															
3572003804750	357200	3804750	0.002740008	0.00196705	0.006235813	0.002880002	0.002596573	0.002431647	0.000848858	0.000726468	0.000553274	0.000475744	0.001544348	0.000985346	0.00161215	6.71155E-08	1.19268E-06	5.56103E-08	1.3154E-06	1.315404															
3572253804750	357225	3804750	0.002625965	0.00190443	0.006037302	0.00278832	0.002513914	0.002351462	0.000816998	0.000702512	0.000531205	0.000457667	0.001500005	0.00095294	0.00155842	6.4907E-08	1.15377E-06	5.38118E-08	1.27249E-06	1.272498															
3572503804750	357250	3804750	0.002492451	0.00182701	0.005791871	0.002674968	0.002411717	0.002252477	0.000782607	0.00067294	0.00050515	0.00043364	0.001443308	0.000912826	0.00149212	6.21966E-08	1.10586E-06	5.15811E-08	1.21964E-06	1.219637															
3572753804750	357275	3804750	0.002368579	0.00175414	0.005560877	0.002568283	0.002315532	0.002159439	0.000750281	0.000645415	0.000480858	0.000413476	0.001389731	0.000875122	0.00143	5.96504E-08	1.06801E-06	4.94841E-08	1.16995E-06	1.169948															
3573003804750	357300	3804750	0.002254536	0.00168665	0.005346898	0.002469547	0.002262431	0.002073115	0.000702899	0.000619355	0.000458482	0.000394235	0.001339796	0.000840139	0.00137233	5.72937E-08	1.01909E-06	4.75374E-08	1.12392E-06	1.123922															
3573253804750	357325	3804750	0.002150692	0.00162484	0.005150965	0.002378966	0.002144846	0.001994273	0.00067285	0.00059598	0.00043806	0.000376675	0.001298392	0.000808188	0.00131962	5.51372E-08	9.80917E-07	4.57555E-08	1.08181E-06	1.08181															
3573503804750	357350	3804750	0.002063722	0.00157458	0.004991641	0.002305183	0.002078504	0.001929242	0.000670301	0.000576372	0.000420971	0.000361981	0.001256701	0.000781834	0.00127618	5.33769E-08																			

Unique Identifier	X (UTM)	Y (UTM)	2023	2023	2023	2023	2024	2024	2024	2025	2024	2025	2025	2025	2025	3rd Trimester	Child Risk			per million	
																	0<2	2<16	Total		
Demolition	Site Preparation	Grading/Excavation	Drainage/Utilities Sub-Grade	Drainage/Utilities/Sub-Grade	Foundations/Concrete Pour	Building Construction_Footprint	Building Construction_Footprint	Building Construction_Sensor	Building Construction_Sensor	Building Construction_Apartment	Architectural Coatings	Paving									
356207.943803837.03	356207.9		3803837.03	0.001885703	0.00169478	0.005372678	0.002481364	0.002237166	0.002020745	0.000702093	0.000603709	0.000390894	0.000336118	0.001369965	0.000818916	0.00134541	5.65513E-08	1.00728E-06	4.64888E-08	1.11032E-06	1.110323
356211.123803948.24	356211.1		3803948.24	0.002444794	0.002101172	0.00666274	0.003071777	0.002774344	0.002566696	0.00089178	0.000766815	0.000505917	0.000453023	0.001718081	0.001040165	0.00171262	7.04153E-08	1.25858E-06	5.88948E-08	1.38789E-06	1.387893
356211.123803983.19	356211.1		3803983.19	0.002639873	0.00222289	0.007046871	0.003254588	0.002934295	0.002737809	0.000951232	0.000817936	0.00054473	0.000468397	0.001822243	0.001109509	0.0018291	7.46202E-08	1.33497E-06	6.2759E-08	1.47235E-06	1.47235
356230.183804011.79	356230.2		3804011.79	0.002951962	0.00244246	0.007742947	0.00357607	0.003224139	0.003034187	0.001054206	0.000906481	0.00060818	0.000522956	0.002008979	0.001229618	0.00202954	8.21288E-08	1.47096E-06	6.94814E-08	1.62257E-06	1.622565
356350.933804011.79	356350.9		3804011.79	0.003670714	0.00310964	0.009857988	0.004552898	0.004104835	0.003873831	0.001345934	0.001157329	0.000760752	0.000654148	0.002580763	0.001569887	0.00259008	1.04328E-07	1.8719E-06	8.87111E-08	2.06494E-06	2.064943
356446.253804024.5	356446.3		3804024.5	0.003908629	0.00329896	0.014058161	0.004830087	0.004354745	0.004153328	0.001443043	0.00124083	0.000807842	0.000694639	0.002758396	0.001683155	0.00277617	1.10718E-07	1.99054E-06	9.48963E-08	2.19615E-06	2.196154
356471.673804024.5	356471.7		3804024.5	0.004396326	0.00371794	0.011786378	0.005443522	0.004907811	0.004715009	0.001638195	0.001408635	0.000909569	0.000782112	0.003134861	0.001910778	0.00314771	1.24756E-07	2.24679E-06	1.07663E-07	2.4792E-06	2.479205
356544.763804021.32	356544.8		3804021.32	0.008384136	0.00747768	0.023705268	0.010948245	0.009870799	0.00979603	0.003403559	0.002926619	0.001784003	0.001534011	0.006647876	0.003969885	0.00650157	2.49687E-07	4.54486E-06	2.23953E-07	5.0185E-06	5.018505
356595.63804021.32	356595.6		3804021.32	0.012277559	0.01159654	0.036762629	0.01697877	0.015307843	0.015748731	0.005471781	0.004705022	0.002668399	0.002294477	0.010941388	0.006382244	0.01035665	3.85276E-07	7.09202E-06	3.60448E-07	7.83774E-06	7.837741
356614.663804037.21	356614.7		3804037.21	0.016216971	0.01559245	0.049430188	0.022829264	0.020582575	0.02205651	0.007663373	0.006589507	0.003598046	0.003093853	0.015418255	0.0089385	0.01440214	5.17252E-07	9.62922E-06	5.03882E-07	1.06504E-05	10.65036
356653.823804126.18	356653.8		3804126.18	0.018490606	0.01346145	0.042674638	0.019709223	0.017769585	0.019441473	0.006754798	0.00580825	0.003954494	0.003400352	0.012130208	0.007878745	0.0130246	4.58605E-07	8.47899E-06	4.36277E-07	9.37387E-06	9.373868
356525.693804157.96	356525.7		3804157.96	0.01330803	0.00930111	0.029485795	0.013617974	0.012277792	0.013096095	0.004550142	0.003912532	0.002772885	0.002384322	0.008074668	0.005307252	0.00885425	3.18297E-07	5.82928E-06	2.94324E-07	6.4419E-06	6.441897
356500.273804196.09	356500.3		3804196.09	0.012950694	0.00847422	0.026864423	0.012407297	0.01186261	0.01191787	0.004140777	0.003560531	0.002660928	0.002288053	0.007136564	0.004829771	0.00813214	2.92215E-07	5.32927E-06	2.67113E-07	5.8886E-06	5.888595
356500.273804243.75	356500.3		3804243.75	0.020777223	0.01134932	0.035978899	0.016616895	0.0149815	0.01633439	0.005675264	0.004879991	0.004151052	0.003569366	0.008879482	0.006619585	0.01140674	4.00565E-07	7.26223E-06	3.61723E-07	8.02452E-06	8.024516
356478.033804256.46	356478.0		3804256.46	0.020235192	0.01075859	0.034106196	0.015751899	0.014201712	0.01537773	0.00534288	0.004594184	0.004002273	0.003441436	0.008259324	0.006231895	0.01078852	3.81163E-07	6.88296E-06	3.40624E-07	7.60475E-06	7.604747
356401.773804218.33	356401.8		3804218.33	0.009026303	0.0059205	0.018768797	0.008668343	0.007815268	0.008041162	0.002793843	0.002402343	0.001827836	0.001571702	0.00484644	0.003258717	0.0054934	2.04098E-07	3.68895E-06	1.81077E-07	4.07412E-06	4.07412
356306.443804221.51	356306.4		3804221.51	0.006511414	0.0043399	0.013758079	0.00635415	0.005728821	0.005775833	0.002006771	0.001725563	0.001312149	0.001128278	0.003517437	0.002340682	0.00393435	1.49327E-07	2.68768E-06	1.30487E-07	2.96749E-06	2.96749
356239.723804215.15	356239.7		3804215.15	0.004766828	0.00333653	0.010577267	0.004885096	0.004404341	0.00435782	0.001514093	0.001301923	0.000964552	0.000829389	0.002711452	0.001766026	0.00295375	1.14162E-07	2.0512E-06	9.88249E-08	2.26418E-06	2.264183
356201.593804167.49	356201.6		3804167.49	0.003739882	0.0027767	0.00808253	0.004065436	0.003665346	0.003560955	0.001237228	0.001063855	0.000761365	0.000654675	0.002269448	0.001443093	0.00240133	9.43977E-08	1.69413E-06	8.10695E-08	1.86959E-06	1.869594
356246.073804154.78	356246.1		3804154.78	0.004327159	0.00318316	0.010091045	0.004660535	0.004201879	0.004110742	0.001428247	0.001228107	0.000880909	0.000757468	0.002610151	0.001665897	0.00277426	1.08322E-07	1.94628E-06	9.34929E-08	2.14809E-06	2.148091
356246.073804113.47	356246.1		3804113.47	0.003978538	0.00302702	0.009596057	0.004431926	0.003995768	0.003873255	0.001345734	0.001157157	0.000812976	0.000699054	0.002491556	0.00156954	0.00260672	1.02643E-07	1.84345E-06	8.8268E-08	2.03436E-06	2.034359
356195.233804100.76	356195.2		3804100.76	0.003206752	0.00250639	0.007945583	0.003669656	0.003308516	0.003164824	0.001099595	0.000945509	0.000656036	0.000564106	0.002056834	0.001282559	0.0021257	8.47544E-08	1.51947E-06	7.22771E-08	1.6765E-06	1.676502
356214.33804030.85	356214.3		3804030.85	0.002953817	0.00241205	0.007646528	0.003521538	0.00318399	0.003006372	0.001044542	0.000898171	0.000607261	0.000522165	0.001982971	0.001218346	0.00201265	8.12096E-08	1.45465E-06	6.8811E-08	1.60647E-06	1.606473
356198.413804024.5	356198.4		3804024.5	0.002793414	0.0022912	0.007263428	0.003354604	0.003024469	0.00284696	0.000899156	0.000850546	0.000574233	0.000493766	0.00188063	0.001153744	0.00190519	7.11076E-08	1.38047E-06	6.51857E-06	1.5227E-06	1.522767
356179.343804103.94	356179.3		3804103.94	0.003066933	0.00240115	0.007611982	0.003515583	0.003169605	0.003026514	0.00105154	0.000904188	0.000627415	0.000539495	0.001968277	0.001226508	0.00203259	8.1182E-08	1.45495E-06	6.91357E-08	1.60527E-06	1.605268
356172.993804167.49	356172.9		3804167.49	0.003399977	0.00254819	0.008078095	0.003730857	0.003363693	0.003252491	0.001130054	0.0009717	0.000692513	0.000559471	0.002080761	0.001318087	0.00219124	8.65427E-08	1.55219E-06	7.41055E-08	1.71284E-06	1.712837
356192.053804205.62	356192.1		3804205.62	0.003913265	0.00282322	0.008949995	0.004133543	0.00372675	0.00364536	0.001266554	0.001089072	0.000793857	0.000682614	0.002297573	0.001477299	0.0024637	9.62761E-08	1.72798E-06	8.28596E-08	1.90711E-06	1.907114
356236.543804234.22	356236.5		3804234.22	0.004895892	0.00337248	0.010691218	0.004937724	0.004451789	0.00441863	0.001535221	0.001320091	0.000988422	0.000849915	0.002731608	0.00179067	0.00299935	1.156E-07	2.07671E-06	1.00122E-07	2.29244E-06	2.292435
356315.983804256.46	356316.0		3804256.46	0.007351256	0.00468796	0.014861488	0.006863758	0.006188277	0.006297996	0.002188193	0.001881562	0.001472652	0.001266229	0.0037584	0.002552291	0.00431046	1.62156E-07	2.91747E-06	1.41888E-07	3.22151E-06	3.22151
356341.43804250.1	356341.4		3804250.1	0.008327393	0.00522063	0.016550118	0.007643649	0.006891417	0.007064744	0.002454594	0.002110632	0.001666337	0.001432833	0.004180638	0.002863019	0.00484445	1.80958E-07	3.25816E-06	1.58918E-07	3.59803E-06	3.598032
356385.883804250.1	356385.9		3804250.1	0.010880852	0.00649985	0.020605408	0.009516579	0.008580027	0.008941808	0.003106766	0.002671416	0.002167962	0.001864166	0.005167185	0.003623708	0.00616674	2.26675E-07	4.08539E-06	2.0033E-07	4.5124E-06	4.512399
356436.723804278.7	356436.7		3804278.7	0.017378173	0.00915294	0.029016073	0.013401033	0.012082201	0.012903113	0.004483092	0.003854878	0.003416392	0.002937654	0.00692447	0.005229045	0.00908657	3.24714E-07	5.83865E-06	2.8661E-07	6.44998E-06	6.449975















# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.7216443

RESIDENTIAL RECEPTORS ONLY MAX: 54.9857

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3571003803400	357100	3803400	2.365869161
3571253803400	357125	3803400	2.377374243
3571503803400	357150	3803400	2.283842206
3571753803400	357175	3803400	2.157283477
3572003803400	357200	3803400	2.051614939
3572253803400	357225	3803400	1.975161148
3572503803400	357250	3803400	1.904562584
3572753803400	357275	3803400	1.834099643
3573003803400	357300	3803400	1.742282452
3573253803400	357325	3803400	1.66857856
3573503803400	357350	3803400	1.528856787
3571753803425	357175	3803425	2.304796789
3572003803425	357200	3803425	2.199690243
3572253803425	357225	3803425	2.108434203
3572503803425	357250	3803425	2.024219311
3572753803425	357275	3803425	1.935695826
3573003803425	357300	3803425	1.831551449
3573253803425	357325	3803425	1.771782596
3571003803450	357100	3803450	3.112223716
3571253803450	357125	3803450	2.855387166
3571503803450	357150	3803450	2.64099234
3571753803450	357175	3803450	2.483976508
3572003803450	357200	3803450	2.326454647
3572503803450	357250	3803450	2.09414341
3572753803450	357275	3803450	2.026078314
3573003803450	357300	3803450	1.850090023
3571503803475	357150	3803475	2.881682736
3571003803500	357100	3803500	4.04420228
3571253803500	357125	3803500	3.516178793
3571503803500	357150	3803500	3.183298867
3571753803500	357175	3803500	2.929385312
3571503803525	357150	3803525	3.373764924
3571503803550	357150	3803550	3.982746739
3572003803550	357200	3803550	3.256644115
3573503803550	357350	3803550	2.007049909
3572503803575	357250	3803575	2.971602967
3572753803575	357275	3803575	2.774387362
3573003803575	357300	3803575	2.599773224
3573253803575	357325	3803575	2.410084003
3573503803575	357350	3803575	2.255635039
3572503803600	357250	3803600	3.193588808
3572753803600	357275	3803600	2.957810386
3573003803600	357300	3803600	2.759925926
3573253803600	357325	3803600	2.568696076
3573503803600	357350	3803600	2.386951398
3572253803625	357225	3803625	3.788835888
3572503803625	357250	3803625	3.353489068
3572753803625	357275	3803625	3.108318582
3573003803625	357300	3803625	2.882890402
3573253803625	357325	3803625	2.67244759

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.024525785	0.015277385	0.007715514
0.024576562	0.015362294	0.007878466
0.023549264	0.014779053	0.007711827
0.022208898	0.01398318	0.007398511
0.021101228	0.013318903	0.007120653
0.0203112	0.012837522	0.00690136
0.019589704	0.012390957	0.006684672
0.018870108	0.011943343	0.006464901
0.017924306	0.011356749	0.006178995
0.017156613	0.010887342	0.005964691
0.015708214	0.00998696	0.005523686
0.023712457	0.014915507	0.007866025
0.022626589	0.014258598	0.007571653
0.021691804	0.01368554	0.007299599
0.020832211	0.013154903	0.007043051
0.019924241	0.012594583	0.006772997
0.018846672	0.011931694	0.006460091
0.018218061	0.011555511	0.006304968
0.032063174	0.019936338	0.010105625
0.029389828	0.018347737	0.00942935
0.027155462	0.017017929	0.008866291
0.02554182	0.01604417	0.008423986
0.023972179	0.015051099	0.007884097
0.021575027	0.013594893	0.007215121
0.020863365	0.013172778	0.007041638
0.019040651	0.012048436	0.006505222
0.029569025	0.018517319	0.00965784
0.040732851	0.025581693	0.013969598
0.03583548	0.022412225	0.011803387
0.032644106	0.02039254	0.010569688
0.030123886	0.018829708	0.00973059
0.034644757	0.021561409	0.011040992
0.04037952	0.0252953	0.013512113
0.033344235	0.020896851	0.010936476
0.020598386	0.013095607	0.007181747
0.030499954	0.019202854	0.010101658
0.028491608	0.017986614	0.009530047
0.026692124	0.016898217	0.009044333
0.024732969	0.015698725	0.008500004
0.023133932	0.014717386	0.008058895
0.032603573	0.020619695	0.011049247
0.030296403	0.019174348	0.010239298
0.028296533	0.017942753	0.00963824
0.026332259	0.016737275	0.009083294
0.024459034	0.015580649	0.008550506
0.037642625	0.024196538	0.01420657
0.034080054	0.021639605	0.011793762
0.031789369	0.020157723	0.010815747
0.029524552	0.018753997	0.010112887
0.027368159	0.01742588	0.009494307

# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.7216443

RESIDENTIAL RECEPTORS ONLY MAX: 54.9857

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3573503803625	357350	3803625	2.473727516
3572503803650	357250	3803650	3.513904578
3572753803650	357275	3803650	3.24084676
3573003803650	357300	3803650	3.004588047
3573253803650	357325	3803650	2.797512705
3573503803650	357350	3803650	2.607956464
3572003803675	357200	3803675	4.575300659
3572253803675	357225	3803675	3.759426792
3573253803675	357325	3803675	2.836873217
3573503803675	357350	3803675	2.672240302
3571753803700	357175	3803700	5.239814896
3572003803700	357200	3803700	4.29780361
3572253803700	357225	3803700	3.708893163
3572503803700	357250	3803700	3.385513948
3572753803700	357275	3803700	3.132012941
3573003803700	357300	3803700	2.959276834
3573253803700	357325	3803700	2.802803806
3573503803700	357350	3803700	2.663967405
3571503803725	357150	3803725	6.068045254
3571753803725	357175	3803725	4.960014596
3572003803725	357200	3803725	4.250467132
3572253803725	357225	3803725	3.803976927
3572503803725	357250	3803725	3.45345621
3572753803725	357275	3803725	3.196550821
3573003803725	357300	3803725	3.01728914
3573253803725	357325	3803725	2.849408609
3573503803725	357350	3803725	2.683210082
3571003803750	357100	3803750	8.898616547
3571253803750	357125	3803750	6.998939614
3571503803750	357150	3803750	5.754097304
3571753803750	357175	3803750	4.927543445
3572003803750	357200	3803750	4.29880841
3572253803750	357225	3803750	3.898545819
3572503803750	357250	3803750	3.595468912
3572753803750	357275	3803750	3.330621817
3573003803750	357300	3803750	3.120461516
3573253803750	357325	3803750	2.933671179
3573503803750	357350	3803750	2.737354324
3571003803775	357100	3803775	8.358668598
3571253803775	357125	3803775	6.811328391
3571503803775	357150	3803775	5.722769614
3571753803775	357175	3803775	4.977889297
3572003803775	357200	3803775	4.391358578
3572253803775	357225	3803775	3.983672195
3572503803775	357250	3803775	3.710045782
3572753803775	357275	3803775	3.433241205
3573003803775	357300	3803775	3.201129403
3573253803775	357325	3803775	2.996816751
3573503803775	357350	3803775	2.790981672
3570253803800	357025	3803800	20.11737837

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.025324383	0.016158903	0.008903742
0.035695313	0.022694972	0.012375107
0.03311034	0.021039355	0.011332023
0.030729098	0.019566385	0.010605923
0.028609253	0.018259976	0.010000199
0.026658039	0.017053032	0.009445454
0.04506245	0.029026149	0.017352704
0.037892662	0.024130735	0.013429029
0.028934704	0.018540538	0.010273587
0.027239075	0.017496669	0.009800944
0.052152745	0.033185895	0.018865024
0.043456172	0.027472969	0.014906167
0.037772874	0.023879623	0.012775333
0.034519574	0.021933812	0.01182875
0.031945523	0.020374126	0.011101839
0.030156116	0.019315412	0.010670553
0.02854227	0.018337266	0.010250738
0.027113124	0.017459571	0.009863547
0.061426342	0.038444205	0.020175354
0.050644276	0.031634993	0.016259588
0.043527828	0.027287021	0.014070652
0.03889156	0.024588226	0.01295773
0.035272233	0.022427111	0.01202466
0.032611833	0.020830155	0.011352544
0.030735377	0.019720282	0.010924449
0.028985356	0.018665354	0.010493433
0.027268394	0.017606134	0.010022204
0.091966676	0.055839899	0.025802315
0.072410764	0.044293344	0.020757413
0.059466855	0.036657729	0.017581571
0.050787977	0.031593491	0.015621131
0.04422166	0.027709116	0.014045033
0.039913184	0.02528293	0.013272164
0.036718983	0.023412084	0.0125755
0.033951624	0.021751276	0.011906263
0.031747188	0.020430811	0.011387286
0.029799818	0.019246545	0.010896131
0.027779688	0.017983582	0.010309626
0.087902787	0.052867749	0.022377479
0.071124105	0.043382302	0.019482217
0.059438083	0.036657872	0.017227833
0.05141362	0.032068955	0.015759582
0.045172862	0.028422328	0.014448904
0.040769751	0.02591027	0.013658379
0.037838328	0.024221386	0.013107687
0.034939007	0.02247125	0.012407354
0.03251508	0.020996268	0.011800627
0.030391755	0.019690524	0.011241025
0.028278871	0.018360056	0.010612086
0.219072165	0.124678483	0.038882092

# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.7216443

RESIDENTIAL RECEPTORS ONLY MAX: 54.9857

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3570503803800	357050	3803800	13.68887425
3570753803800	357075	3803800	10.27764162
3571003803800	357100	3803800	8.160104761
3571253803800	357125	3803800	6.766899141
3571503803800	357150	3803800	5.7812377
3571753803800	357175	3803800	5.063620847
3572003803800	357200	3803800	4.48940967
3572253803800	357225	3803800	4.103562935
3572503803800	357250	3803800	3.775907372
3572753803800	357275	3803800	3.478505365
3573003803800	357300	3803800	3.234076362
3573253803800	357325	3803800	3.019073181
3573503803800	357350	3803800	2.825909374
3570253803825	357025	3803825	17.90649068
3570503803825	357050	3803825	12.90448785
3570753803825	357075	3803825	9.97826022
3571003803825	357100	3803825	8.091104571
3571253803825	357125	3803825	6.777340725
3571503803825	357150	3803825	5.904923451
3571753803825	357175	3803825	5.177122321
3572003803825	357200	3803825	4.614421091
3572253803825	357225	3803825	4.23332951
3572503803825	357250	3803825	3.860830663
3572753803825	357275	3803825	3.535423192
3573003803825	357300	3803825	3.282924288
3573253803825	357325	3803825	3.064217662
3573503803825	357350	3803825	2.87276947
3570253803850	357025	3803850	16.74932379
3570503803850	357050	3803850	12.45871169
3570753803850	357075	3803850	9.826282175
3571003803850	357100	3803850	8.130683712
3571253803850	357125	3803850	6.878024233
3571503803850	357150	3803850	6.030312421
3571753803850	357175	3803850	5.399911501
3572003803850	357200	3803850	4.8761579
3572253803850	357225	3803850	4.448749891
3572503803850	357250	3803850	4.016035025
3572753803850	357275	3803850	3.651183765
3573003803850	357300	3803850	3.368028938
3573253803850	357325	3803850	3.1345838
3573503803850	357350	3803850	2.953109933
3570003803875	357000	3803875	23.27761592
3570253803875	357025	3803875	16.12301541
3570503803875	357050	3803875	12.22766265
3570753803875	357075	3803875	9.76036028
3571003803875	357100	3803875	8.155866072
3571253803875	357125	3803875	7.075411833
3571503803875	357150	3803875	6.198769222
3571753803875	357175	3803875	5.545879064
3572003803875	357200	3803875	5.003695681

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.147262691	0.085822525	0.0302318
0.109265849	0.065003218	0.025392776
0.085922753	0.051970613	0.021953261
0.070665088	0.043355483	0.019549876
0.059951939	0.03723899	0.017718717
0.052201305	0.032773016	0.016303851
0.046078699	0.029169491	0.015021885
0.041881635	0.026783129	0.014311857
0.038439751	0.024708797	0.013504578
0.035341859	0.022808923	0.012708684
0.03280031	0.021243973	0.01204253
0.030577448	0.01986053	0.011426919
0.028590561	0.018611868	0.010847219
0.193666718	0.112208783	0.037352572
0.137913718	0.081671593	0.030315995
0.105480787	0.063619346	0.025853084
0.084765069	0.051882178	0.022675578
0.070463207	0.043677522	0.020235824
0.060898315	0.03826085	0.018779352
0.053124649	0.033670189	0.017165368
0.047148387	0.030108433	0.015866414
0.043058355	0.027719969	0.015067001
0.03919617	0.025327314	0.014038525
0.035840974	0.02322685	0.013092767
0.033232286	0.021599361	0.012372224
0.030977226	0.020186638	0.011733441
0.029014104	0.018945057	0.011149438
0.178884335	0.10607239	0.038862783
0.131639616	0.079577965	0.031854305
0.102902332	0.063140114	0.027203814
0.084366575	0.052539795	0.024289496
0.070919694	0.0446231	0.021647264
0.061747246	0.039296542	0.020009848
0.054950664	0.035334648	0.018735949
0.049477669	0.031980879	0.01739893
0.045012414	0.029242943	0.016300717
0.040598116	0.026426632	0.014953593
0.036887265	0.024046696	0.013787721
0.033995788	0.022204357	0.012906831
0.031612871	0.020684874	0.012177311
0.029750711	0.019507862	0.011633907
0.246623765	0.147361015	0.055625058
0.169597806	0.103197711	0.041718483
0.127476114	0.078812771	0.034165041
0.101060608	0.063199875	0.029019557
0.083805681	0.053057703	0.025822954
0.07216176	0.046237245	0.023685106
0.062922884	0.040630938	0.0215602
0.056101746	0.036441225	0.019891465
0.050493164	0.032939989	0.018406216

# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

RESIDENTIAL RECEPTORS ONLY      MAX:      54.9857

MAX:      0.7216443

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3572253803875	357225	3803875	4.550233686
3572503803875	357250	3803875	4.148746932
3572753803875	357275	3803875	3.804402228
3573003803875	357300	3803875	3.519774256
3573253803875	357325	3803875	3.26862615
3573503803875	357350	3803875	3.053022575
3570003803900	357000	3803900	22.20497214
3570253803900	357025	3803900	15.78657182
3570503803900	357050	3803900	12.12106901
3570753803900	357075	3803900	9.750000678
3571003803900	357100	3803900	8.147690439
3571253803900	357125	3803900	7.177241442
3571503803900	357150	3803900	6.291204825
3571753803900	357175	3803900	5.642383808
3572003803900	357200	3803900	5.083926949
3572253803900	357225	3803900	4.610675552
3572503803900	357250	3803900	4.226915816
3572753803900	357275	3803900	3.891400192
3573003803900	357300	3803900	3.598456061
3573253803900	357325	3803900	3.333925363
3573503803900	357350	3803900	3.099983862
3570003803925	357000	3803925	21.53718441
3570253803925	357025	3803925	15.6152147
3570503803925	357050	3803925	12.07746206
3570753803925	357075	3803925	9.770267332
3571003803925	357100	3803925	8.173684822
3571253803925	357125	3803925	7.063172363
3571503803925	357150	3803925	6.239231425
3571753803925	357175	3803925	5.71895096
3572003803925	357200	3803925	5.167963061
3572253803925	357225	3803925	4.681779877
3572503803925	357250	3803925	4.276213663
3572753803925	357275	3803925	3.930456974
3573003803925	357300	3803925	3.618652097
3573253803925	357325	3803925	3.345483087
3573503803925	357350	3803925	3.110056316
3570003803950	357000	3803950	21.12738114
3570253803950	357025	3803950	15.52062711
3570503803950	357050	3803950	12.07827854
3570753803950	357075	3803950	9.814302826
3571003803950	357100	3803950	8.246253587
3571253803950	357125	3803950	7.088472796
3571503803950	357150	3803950	6.29460008
3571753803950	357175	3803950	5.735560815
3572003803950	357200	3803950	5.212423464
3572253803950	357225	3803950	4.754751357
3572503803950	357250	3803950	4.341316456
3572753803950	357275	3803950	3.977670185
3573003803950	357300	3803950	3.640370994
3573253803950	357325	3803950	3.354512818

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.045826098	0.030003237	0.017109923
0.041741297	0.027384566	0.015858227
0.038253768	0.025131963	0.014744687
0.035368212	0.023270931	0.013827857
0.032833562	0.021623962	0.012988743
0.030657588	0.020209721	0.012263815
0.231022525	0.1424162	0.060032244
0.163146954	0.102155316	0.045480623
0.124524329	0.078830785	0.036949993
0.099716236	0.063612085	0.031105289
0.082961843	0.053307044	0.027115069
0.072544097	0.047163736	0.025214762
0.063415261	0.041419912	0.022715486
0.056746548	0.037212393	0.020892215
0.051046215	0.033574332	0.019229823
0.046251345	0.030478534	0.017738823
0.042363752	0.027968579	0.016528232
0.038981725	0.025767314	0.015425894
0.036037285	0.023841707	0.014437428
0.033396576	0.022095322	0.013495831
0.031067522	0.02054788	0.012641499
0.219310765	0.140051541	0.065943277
0.158343638	0.102156412	0.049853497
0.122114076	0.079248938	0.039960154
0.09867883	0.064206572	0.033309767
0.082410014	0.053781538	0.028638812
0.071047121	0.046554576	0.025464097
0.06262504	0.041186455	0.023073274
0.057193899	0.037843444	0.021839324
0.051627094	0.034232639	0.020116205
0.04677107	0.031026013	0.018460845
0.042723963	0.028349555	0.017062891
0.039272746	0.026068026	0.015864551
0.036179643	0.024002421	0.014725916
0.03347712	0.022189543	0.013703581
0.031146319	0.020627507	0.012820308
0.210256937	0.139228008	0.072574789
0.154476341	0.102571045	0.054327559
0.120457918	0.079862431	0.043048367
0.097941214	0.064905366	0.035560033
0.082315785	0.054557669	0.030395545
0.070784647	0.046910783	0.026528875
0.062797787	0.041695188	0.024041629
0.057123617	0.03804393	0.022433625
0.051871499	0.034605105	0.020778791
0.04730856	0.031585059	0.019243115
0.043212335	0.028846719	0.017773602
0.039631213	0.026429316	0.016416469
0.036345802	0.024171103	0.015041391
0.033545185	0.022263448	0.013906737

# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.7216443

RESIDENTIAL RECEPTORS ONLY MAX: 54.9857

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3573503803950	357350	3803950	3.116089588
3570003803975	357000	3803975	20.85026316
3570253803975	357025	3803975	15.45748058
3570503803975	357050	3803975	12.09599016
3570753803975	357075	3803975	10.03143398
3571003803975	357100	3803975	8.471256149
3571253803975	357125	3803975	7.244127399
3571503803975	357150	3803975	6.398019806
3571753803975	357175	3803975	5.758501347
3572003803975	357200	3803975	5.231675384
3572253803975	357225	3803975	4.76851028
3572503803975	357250	3803975	4.340654251
3572753803975	357275	3803975	3.941034412
3573003803975	357300	3803975	3.566950893
3573253803975	357325	3803975	3.210934788
3573503803975	357350	3803975	2.89370407
3570003804000	357000	3804000	20.65020399
3570253804000	357025	3804000	15.38310829
3570503804000	357050	3804000	12.07583253
3570753804000	357075	3804000	10.13663653
3571003804000	357100	3804000	8.645527548
3571253804000	357125	3804000	7.468801059
3571503804000	357150	3804000	6.561046595
3571753804000	357175	3804000	5.828688763
3572003804000	357200	3804000	5.250199945
3572253804000	357225	3804000	4.737781967
3572503804000	357250	3804000	4.084536173
3572753804000	357275	3804000	3.740601762
3573003804000	357300	3804000	3.374542302
3573253804000	357325	3804000	3.043462078
3573503804000	357350	3804000	2.759651171
3570003804025	357000	3804025	20.48284704
3570253804025	357025	3804025	15.2841034
3570503804025	357050	3804025	12.01962337
3570753804025	357075	3804025	10.13409001
3571003804025	357100	3804025	8.653807071
3571253804025	357125	3804025	7.488965598
3571503804025	357150	3804025	6.570456583
3571753804025	357175	3804025	5.826996781
3572003804025	357200	3804025	5.189264958
3570003804050	357000	3804050	20.28558709
3570253804050	357025	3804050	15.1355648
3570503804050	357050	3804050	11.94195382
3570753804050	357075	3804050	10.06396094
3571003804050	357100	3804050	8.559639358
3571253804050	357125	3804050	7.394767821
3571503804050	357150	3804050	6.474367323
3571753804050	357175	3804050	5.64665848
3572003804050	357200	3804050	4.794538224
3570003804075	357000	3804075	19.86100064

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.031196415	0.020677699	0.012992564
0.203134456	0.138961427	0.078739925
0.151294165	0.103032095	0.05840795
0.119051195	0.080514719	0.045975759
0.098868559	0.066780412	0.038679018
0.08370343	0.056349946	0.032883853
0.071775671	0.04814135	0.028238028
0.063443901	0.042520097	0.025254356
0.05714566	0.038274516	0.023048139
0.051920705	0.034789333	0.021284243
0.047338409	0.031721318	0.01968222
0.043131354	0.028877111	0.018112169
0.039224145	0.026211199	0.016556042
0.035566387	0.023713811	0.015069017
0.032082327	0.021335797	0.013620044
0.028977845	0.019215318	0.012303563
0.197969232	0.138713974	0.083539833
0.148614421	0.103183898	0.061587101
0.117658278	0.080777216	0.048127849
0.099046161	0.067770907	0.040794466
0.084753154	0.057741615	0.035004605
0.073469452	0.049823097	0.030353342
0.064704438	0.043734306	0.026848495
0.057622032	0.03882429	0.023993594
0.051991731	0.034959789	0.021819275
0.046968817	0.03155062	0.019964729
0.040573385	0.027195184	0.01741394
0.037258551	0.024882149	0.015951361
0.033701084	0.022428812	0.014412705
0.030474667	0.020211686	0.013014042
0.027704316	0.018311955	0.011807621
0.194450275	0.138163626	0.086495852
0.146407914	0.102907118	0.06363629
0.116314808	0.08065212	0.049567451
0.098511177	0.067920795	0.041993929
0.084500159	0.057911767	0.036062947
0.073412596	0.050049805	0.031314275
0.064644964	0.043856863	0.027554143
0.057516079	0.038853959	0.024526162
0.051349756	0.03458155	0.022043262
0.191908412	0.136945897	0.08744271
0.144440839	0.102049899	0.064450737
0.115200166	0.080235089	0.050373261
0.097660885	0.067500884	0.042510396
0.083519004	0.057303925	0.036301731
0.072501119	0.049422378	0.031361382
0.063733144	0.043215841	0.027586781
0.055799041	0.037649754	0.024227818
0.047569126	0.031932533	0.020692574
0.188349963	0.133844338	0.085806514



# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.7216443

RESIDENTIAL RECEPTORS ONLY MAX: 54.9857

Overlapping Phases - Maximum GLC

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3570253804075	357025	3804075	14.85408829
3570503804075	357050	3804075	11.64709329
3570753804075	357075	3804075	9.745989874
3571003804075	357100	3804075	8.37878774
3571253804075	357125	3804075	7.23051978
3571503804075	357150	3804075	6.026311663
3570003804100	357000	3804100	19.12572192
3570253804100	357025	3804100	14.38606616
3570503804100	357050	3804100	11.33300526
3570753804100	357075	3804100	9.440416674
3571003804100	357100	3804100	8.120009722
3571253804100	357125	3804100	7.021533162
3571503804100	357150	3804100	5.581938274
3569753804125	356975	3804125	26.23506205
3570003804125	357000	3804125	18.15249484
3570253804125	357025	3804125	13.69109566
3570503804125	357050	3804125	10.98036305
3570753804125	357075	3804125	9.199630946
3571003804125	357100	3804125	7.837067143
3571253804125	357125	3804125	6.772023191
3569753804150	356975	3804150	23.22183698
3570253804150	357025	3804150	12.65651275
3570753804150	357075	3804150	8.681930585
3565753804390	356575	3804390	28.21219566
3566003804390	356600	3804390	36.89819335
3566253804390	356625	3804390	44.63042625
3566503804390	356650	3804390	50.5724344
3566753804390	356675	3804390	54.21823682
3567003804390	356700	3804390	54.98566596 MAX HERE
3567253804390	356725	3804390	52.71683095
3567503804390	356750	3804390	46.26391292
3567503804415	356750	3804415	29.58577474
3568253804400	356825	3804400	18.58222084
3562003804425	356200	3804425	1.73785962
3562253804425	356225	3804425	1.948352912
3562503804425	356250	3804425	2.237038201
3565503804415	356550	3804415	18.29740092
3565753804415	356575	3804415	22.88390267
3566003804415	356600	3804415	27.65805511
3566253804415	356625	3804415	31.76080574
3566503804415	356650	3804415	34.69978044
3566753804415	356675	3804415	36.16598811
3567003804415	356700	3804415	35.88090799
3567253804415	356725	3804415	33.68874219
3568253804425	356825	3804425	14.91497068
3568503804425	356850	3804425	12.61490176
3568753804425	356875	3804425	10.80478751
3569003804425	356900	3804425	9.329330455
3569253804425	356925	3804425	7.925764905
3569503804425	356950	3804425	6.024474258

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.141836547	0.100086392	0.063797482
0.112093941	0.078318206	0.049655155
0.094609071	0.0653345	0.041408905
0.081916211	0.056042869	0.035793165
0.071062023	0.048279712	0.030976175
0.059559611	0.040175111	0.026081219
0.182550472	0.128496388	0.081811293
0.13788842	0.096739521	0.06173891
0.109277557	0.076122826	0.048522873
0.091819847	0.063228171	0.040342588
0.079536312	0.054263798	0.034660516
0.069268603	0.046810901	0.030131065
0.055497193	0.037131912	0.024254391
0.252523462	0.174496973	0.107917077
0.17459253	0.121543407	0.076666365
0.132393907	0.091732761	0.058456365
0.10665248	0.073526906	0.047044568
0.089834847	0.061512323	0.039445453
0.077036293	0.05229559	0.03355798
0.067079288	0.045074284	0.029063193
0.225681435	0.15406623	0.094011665
0.124099381	0.084298441	0.053823675
0.085854494	0.057759865	0.037307918
0.349503876	0.171154994	0.121464702
0.466344183	0.221212057	0.160236593
0.573188774	0.266086299	0.199266108
0.657163153	0.30110554	0.231267825
0.711300589	0.324305089	0.249090162
0.721644258	0.330388718	0.249391649
0.686299399	0.317543717	0.233841782
0.593717495	0.279422931	0.201673698
0.367939841	0.182325993	0.131573144
0.21416286	0.11781667	0.081989087
0.01815649	0.011438311	0.007823544
0.020404359	0.012816307	0.008806009
0.023508294	0.01470178	0.010156757
0.22148535	0.113416717	0.081912008
0.28226245	0.140425626	0.102102589
0.346751289	0.168543014	0.124280563
0.403161038	0.192962561	0.144602464
0.443989974	0.210865089	0.159307383
0.464055224	0.220319428	0.165796103
0.458579509	0.219230523	0.162897217
0.426112342	0.206508972	0.151013802
0.170131073	0.094925551	0.066034678
0.141175101	0.080799427	0.055683614
0.119070043	0.069547869	0.047591871
0.101432414	0.060311755	0.041074023
0.085170582	0.051439215	0.034893586
0.064501045	0.039155634	0.02637664

# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.7216443

RESIDENTIAL RECEPTORS ONLY MAX: 54.9857

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3569753804425	356975	3804425	4.581087471
3561503804450	356150	3804450	1.390900254
3561753804450	356175	3804450	1.540286942
3562003804450	356200	3804450	1.719519194
3562253804450	356225	3804450	1.952401755
3562503804450	356250	3804450	2.235221591
3563253804450	356325	3804450	3.389487606
3565503804450	356550	3804450	15.2166253
3565753804450	356575	3804450	17.75266829
3566003804450	356600	3804450	20.1169026
3566253804450	356625	3804450	22.00227302
3566503804450	356650	3804450	23.17304067
3566753804450	356675	3804450	23.46545525
3567003804450	356700	3804450	22.80665441
3567253804450	356725	3804450	21.20052539
3567503804450	356750	3804450	19.02693467
3567753804450	356775	3804450	16.57249287
3568753804450	356875	3804450	9.246108094
3569253804450	356925	3804450	7.125335892
3569753804450	356975	3804450	4.352884407
3561503804475	356150	3804475	1.368067173
3561753804475	356175	3804475	1.535547551
3562003804475	356200	3804475	1.734250272
3562253804475	356225	3804475	1.935830799
3562503804475	356250	3804475	2.165314029
3563253804475	356325	3804475	3.346329973
3565503804475	356550	3804475	13.33445578
3565753804475	356575	3804475	15.03646824
3566003804475	356600	3804475	16.53726757
3566253804475	356625	3804475	17.65466153
3566503804475	356650	3804475	18.24691828
3566753804475	356675	3804475	18.22313349
3567003804475	356700	3804475	17.58178115
3567253804475	356725	3804475	16.39685099
3567503804475	356750	3804475	14.87099254
3567753804475	356775	3804475	13.22966409
3568503804475	356850	3804475	9.004174573
3568753804475	356875	3804475	7.993098523
3569003804475	356900	3804475	7.120056125
3569253804475	356925	3804475	6.364178027
3569503804475	356950	3804475	5.630519577
3569753804475	356975	3804475	4.615031327
3570003804475	357000	3804475	3.625164971
3570253804475	357025	3804475	3.417074162
3570503804475	357050	3804475	3.605506494
3570753804475	357075	3804475	3.443016731
3571003804475	357100	3804475	2.99582085
3571253804475	357125	3804475	2.724355524
3571503804475	357150	3804475	2.566776792
3571753804475	357175	3804475	2.373732755

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.048978824	0.029804413	0.020007102
0.014500756	0.009157889	0.006220521
0.016086036	0.010137727	0.00691322
0.017996121	0.011311707	0.007747246
0.020491075	0.012834423	0.008834276
0.023543445	0.014679132	0.010158216
0.036260396	0.022153917	0.015572832
0.182988101	0.094955215	0.069185474
0.216417535	0.110159743	0.080772115
0.247968114	0.124392668	0.091901524
0.273233543	0.135873336	0.100944362
0.288665702	0.143176267	0.106416161
0.291765243	0.145245576	0.107376886
0.28156629	0.141548115	0.103661213
0.258492825	0.132089721	0.095668957
0.228231101	0.119151698	0.085390997
0.194844316	0.104469	0.074104777
0.101684062	0.059580506	0.040844454
0.076750505	0.046224389	0.031427622
0.046443809	0.028338031	0.019053472
0.014286658	0.009003178	0.00612347
0.016066103	0.010101036	0.006899331
0.018188952	0.011401321	0.007824009
0.020357762	0.012717582	0.008766992
0.022843706	0.014212609	0.009843242
0.035913911	0.021847154	0.015371997
0.15929728	0.083577384	0.060980404
0.181518372	0.093885274	0.068819399
0.201231742	0.103020752	0.075840244
0.215826155	0.109905785	0.081077449
0.223220943	0.113668427	0.083719832
0.222103296	0.113721709	0.083307431
0.212565732	0.110011214	0.079939423
0.195850292	0.102970746	0.07412906
0.174948746	0.09381813	0.066904553
0.153037741	0.08390295	0.059281985
0.099708028	0.057908341	0.039945222
0.087651677	0.05157053	0.035384212
0.07741915	0.046063356	0.031469536
0.068683012	0.041270749	0.028096848
0.060263714	0.036617426	0.024857049
0.049146735	0.030059367	0.020250427
0.038526312	0.023634413	0.015875118
0.036230594	0.022296483	0.014963685
0.037926431	0.023581194	0.015831156
0.035998282	0.022562684	0.015149872
0.031406774	0.01961566	0.013101224
0.028544653	0.017842335	0.011900111
0.026819046	0.016825267	0.01119976
0.024782507	0.01556398	0.010345295

# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.7216443

RESIDENTIAL RECEPTORS ONLY MAX: 54.9857

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3572003804475	357200	3804475	2.077261155
3572253804475	357225	3804475	1.910427372
3572503804475	357250	3804475	1.789061652
3573003804475	357300	3804475	1.663090105
3573253804475	357325	3804475	1.642629484
3573503804475	357350	3804475	1.532513391
3560003804500	356000	3804500	0.790663311
3560253804500	356025	3804500	0.853764385
3560503804500	356050	3804500	0.927202247
3560753804500	356075	3804500	1.0179076
3561003804500	356100	3804500	1.125797085
3561253804500	356125	3804500	1.241880228
3561503804500	356150	3804500	1.37086587
3561753804500	356175	3804500	1.537621198
3562003804500	356200	3804500	1.74838098
3562253804500	356225	3804500	1.91635291
3562503804500	356250	3804500	2.105044663
3563003804500	356300	3804500	2.969727687
3563253804500	356325	3804500	3.423461195
3565253804500	356525	3804500	10.45578566
3565503804500	356550	3804500	11.70658323
3565753804500	356575	3804500	12.86965088
3566003804500	356600	3804500	13.83640994
3566253804500	356625	3804500	14.49833163
3566503804500	356650	3804500	14.77210543
3566753804500	356675	3804500	14.62052601
3567003804500	356700	3804500	14.05690226
3567253804500	356725	3804500	13.15971749
3567503804500	356750	3804500	12.05262042
3567753804500	356775	3804500	10.8774757
3568003804500	356800	3804500	9.74138332
3568253804500	356825	3804500	8.661664857
3568503804500	356850	3804500	7.766969846
3568753804500	356875	3804500	6.971993652
3569003804500	356900	3804500	6.267758836
3569253804500	356925	3804500	5.651073494
3569503804500	356950	3804500	5.131250304
3569753804500	356975	3804500	4.669795359
3570003804500	357000	3804500	4.201548941
3570253804500	357025	3804500	3.781429855
3570503804500	357050	3804500	3.557067112
3570753804500	357075	3804500	3.289734176
3571003804500	357100	3804500	3.032955937
3571253804500	357125	3804500	2.806721243
3571503804500	357150	3804500	2.602069541
3571753804500	357175	3804500	2.413154642
3572003804500	357200	3804500	2.155961145
3572253804500	357225	3804500	1.92334605
3572503804500	357250	3804500	1.77393911
3573253804500	357325	3804500	1.652596474

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.021784118	0.013604431	0.009052014
0.020044434	0.012510124	0.008318574
0.018763158	0.011716578	0.00778258
0.017357928	0.010906736	0.007212225
0.017043147	0.010792044	0.007106898
0.015920854	0.010064602	0.006627462
0.00821655	0.005207211	0.003490716
0.008880198	0.005621864	0.003775727
0.009652845	0.006104461	0.004108541
0.01060704	0.006700558	0.004520874
0.011743947	0.007409402	0.005013145
0.01297178	0.00817133	0.005547313
0.014341277	0.009016989	0.006143896
0.01611724	0.010109229	0.006917214
0.018375007	0.011486953	0.007897771
0.020192945	0.012581643	0.008685813
0.022250619	0.013808145	0.009572957
0.031794323	0.01940189	0.013606631
0.03691266	0.022314515	0.015723195
0.122772303	0.066039758	0.047978164
0.138816715	0.073667411	0.053694756
0.15381396	0.080770464	0.059054111
0.166272431	0.086710447	0.063531263
0.174654941	0.090835412	0.066562243
0.177772769	0.092626038	0.067699905
0.175120947	0.091835561	0.066773332
0.166977016	0.088522136	0.06390602
0.154550396	0.083149213	0.059540184
0.139643514	0.076458631	0.054289919
0.12423451	0.069302133	0.048801909
0.109749323	0.062325145	0.043546721
0.096377986	0.05563317	0.038589502
0.085597213	0.050041754	0.034510038
0.076212246	0.045039503	0.030910255
0.068027813	0.040583633	0.027740525
0.060947814	0.036664396	0.024978694
0.055031649	0.033350824	0.022660839
0.049821762	0.030401706	0.020610333
0.044555361	0.02741037	0.018539823
0.03985706	0.024716971	0.016672529
0.037431653	0.023260296	0.015675232
0.034516887	0.021531655	0.014487713
0.03171582	0.019873525	0.013348788
0.029269437	0.018408067	0.012343608
0.027070645	0.017079974	0.011434047
0.025053485	0.015851664	0.010594934
0.02242502	0.014157011	0.009421476
0.020086785	0.012613166	0.00837399
0.018547467	0.01162949	0.007712618
0.017032642	0.010882377	0.007204259

# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.7216443

RESIDENTIAL RECEPTORS ONLY MAX: 54.9857

Overlapping Phases - Maximum GLC		
2023	2024	2025

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3573503804500	357350	3804500	1.553547067
3560003804525	356000	3804525	0.806926135
3560253804525	356025	3804525	0.875522439
3560503804525	356050	3804525	0.950358023
3560753804525	356075	3804525	1.038134128
3561003804525	356100	3804525	1.140476724
3561253804525	356125	3804525	1.245467302
3561503804525	356150	3804525	1.344360363
3561753804525	356175	3804525	1.499297448
3562003804525	356200	3804525	1.742243358
3562253804525	356225	3804525	1.910786442
3562503804525	356250	3804525	2.101930921
3565253804525	356525	3804525	9.405212121
3565503804525	356550	3804525	10.30867124
3565753804525	356575	3804525	11.11087252
3566003804525	356600	3804525	11.73746949
3566253804525	356625	3804525	12.12306278
3566503804525	356650	3804525	12.22104484
3566753804525	356675	3804525	12.020575
3567003804525	356700	3804525	11.5436516
3567253804525	356725	3804525	10.84884665
3567503804525	356750	3804525	10.02024226
3567753804525	356775	3804525	9.143979044
3568003804525	356800	3804525	8.294422143
3568253804525	356825	3804525	7.49322803
3568503804525	356850	3804525	6.773414452
3568753804525	356875	3804525	6.135399118
3569003804525	356900	3804525	5.56529913
3569253804525	356925	3804525	5.056816142
3569503804525	356950	3804525	4.608473762
3569753804525	356975	3804525	4.215969563
3570003804525	357000	3804525	3.882866579
3570253804525	357025	3804525	3.581071769
3570503804525	357050	3804525	3.303644689
3570753804525	357075	3804525	3.056752988
3571003804525	357100	3804525	2.838261029
3571253804525	357125	3804525	2.642221403
3571503804525	357150	3804525	2.465283653
3571753804525	357175	3804525	2.29659919
3572003804525	357200	3804525	2.085366915
3572253804525	357225	3804525	1.850007353
3572503804525	357250	3804525	1.768510602
3572753804525	357275	3804525	1.771783438
3573003804525	357300	3804525	1.692747664
3573253804525	357325	3804525	1.59858795
3573503804525	357350	3804525	1.501538433
3560003804550	356000	3804550	0.815882594
3560253804550	356025	3804550	0.888532478
3560503804550	356050	3804550	0.951872138
3560753804550	356075	3804550	1.032003347

0.016019616	0.010232232	0.006762303
0.008397986	0.00531224	0.003564868
0.009119247	0.005763025	0.003875087
0.009907731	0.006254597	0.004215322
0.010833412	0.006831105	0.004615985
0.011914702	0.007502928	0.005085352
0.013029538	0.008191244	0.005570371
0.014087665	0.008838244	0.006031738
0.015741728	0.009852153	0.006750245
0.01834413	0.011439963	0.007877509
0.020177276	0.012536327	0.008667845
0.022272703	0.013776311	0.009565477
0.109835529	0.059558474	0.043205857
0.121302898	0.065102868	0.047341112
0.131496108	0.070038336	0.051022458
0.139398979	0.073921196	0.053888934
0.14409715	0.076353883	0.055607165
0.144946556	0.07704302	0.055938572
0.141824642	0.075909505	0.05484292
0.135097763	0.073073811	0.052457356
0.125646453	0.0688827	0.04909245
0.114676397	0.063840985	0.045158398
0.103374022	0.058468514	0.041053409
0.092707722	0.053218684	0.037109867
0.08291288	0.048227935	0.033419502
0.074323594	0.043711254	0.030128065
0.066856471	0.039683297	0.027230234
0.060280021	0.036066307	0.024656162
0.054478255	0.032827542	0.022371614
0.049406058	0.02996335	0.020365931
0.044996033	0.027449896	0.018615468
0.041270832	0.025313738	0.01713359
0.037914861	0.023375095	0.015793435
0.034853682	0.021588365	0.014560832
0.032144701	0.019995664	0.013464302
0.029758552	0.018584258	0.012494339
0.027628743	0.017315989	0.011624091
0.025713921	0.016170202	0.010838375
0.023891341	0.015077436	0.010087848
0.02166353	0.013703254	0.009140901
0.019306301	0.012135161	0.008052336
0.018418167	0.011608214	0.007689418
0.018318185	0.011657043	0.007748422
0.017488243	0.011138903	0.007396886
0.016498731	0.010522989	0.006976514
0.015486026	0.009886719	0.006542225
0.008502181	0.005369356	0.003607843
0.00926591	0.005846832	0.003936605
0.009936318	0.006262421	0.00422761
0.010784067	0.006788216	0.004595202

# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.7216443

RESIDENTIAL RECEPTORS ONLY MAX: 54.9857

Overlapping Phases - Maximum GLC

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3561003804550	356100	3804550	1.144711373
3561253804550	356125	3804550	1.257931709
3561503804550	356150	3804550	1.359076046
3561753804550	356175	3804550	1.491152685
3562003804550	356200	3804550	1.710128557
3562253804550	356225	3804550	1.909932086
3562503804550	356250	3804550	2.127256232
3565253804550	356525	3804550	8.455350597
3565503804550	356550	3804550	9.110978975
3565753804550	356575	3804550	9.666318931
3566003804550	356600	3804550	10.07134746
3566253804550	356625	3804550	10.28596502
3566503804550	356650	3804550	10.2891106
3566753804550	356675	3804550	10.07730497
3567003804550	356700	3804550	9.676132245
3567253804550	356725	3804550	9.128297376
3567503804550	356750	3804550	8.490409624
3567753804550	356775	3804550	7.818415097
3568003804550	356800	3804550	7.157431982
3568253804550	356825	3804550	6.530788708
3568503804550	356850	3804550	5.957727229
3568753804550	356875	3804550	5.430248052
3569003804550	356900	3804550	4.969149881
3569253804550	356925	3804550	4.550872669
3569503804550	356950	3804550	4.175877485
3569753804550	356975	3804550	3.84277305
3570003804550	357000	3804550	3.551886217
3570253804550	357025	3804550	3.289107484
3570503804550	357050	3804550	3.051628689
3570753804550	357075	3804550	2.839459237
3571003804550	357100	3804550	2.649434626
3571253804550	357125	3804550	2.47871784
3571503804550	357150	3804550	2.318850632
3571753804550	357175	3804550	2.156361104
3572003804550	357200	3804550	1.950991111
3572253804550	357225	3804550	1.782893133
3572503804550	357250	3804550	1.771886819
3572753804550	357275	3804550	1.714973585
3573003804550	357300	3804550	1.619505368
3573253804550	357325	3804550	1.53620208
3573503804550	357350	3804550	1.453003174
3560003804575	356000	3804575	0.821759925
3560253804575	356025	3804575	0.897697062
3560503804575	356050	3804575	0.961091358
3560753804575	356075	3804575	1.035147036
3561003804575	356100	3804575	1.140280901
3561253804575	356125	3804575	1.261524905
3561503804575	356150	3804575	1.365562749
3561753804575	356175	3804575	1.486399752
3562003804575	356200	3804575	1.677559201

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.011974517	0.007528047	0.005110934
0.013177974	0.008269974	0.005634011
0.014263229	0.008930908	0.006106183
0.015682734	0.009793346	0.006721525
0.01803598	0.011222842	0.007737527
0.020211346	0.01252175	0.008671082
0.022601408	0.013929547	0.009687732
0.098163606	0.053677747	0.038851079
0.106387	0.057724389	0.04184653
0.113330905	0.061163849	0.044377979
0.118316361	0.063694738	0.04620375
0.120792506	0.065070603	0.047124052
0.120479436	0.065156561	0.047034167
0.117358504	0.063922328	0.045927271
0.1118224	0.061515095	0.043942179
0.104498498	0.058188596	0.041297484
0.096187742	0.0542836	0.038267494
0.087649338	0.050139571	0.03511321
0.079461365	0.046033493	0.032037884
0.071887485	0.042112832	0.02914507
0.065112319	0.038504018	0.026518258
0.058986977	0.035163607	0.024116301
0.053704952	0.032230792	0.022029229
0.048959543	0.029561289	0.020145857
0.044736914	0.027161636	0.018463909
0.041008036	0.025025692	0.016975228
0.037766408	0.02315769	0.015678583
0.034851841	0.021467654	0.014509232
0.0322313	0.019937831	0.013452999
0.029899716	0.018569535	0.012510426
0.027820472	0.017342368	0.011666252
0.025960282	0.016238594	0.010907379
0.024217918	0.015205695	0.010197354
0.022466677	0.014152736	0.009476292
0.020306807	0.012812337	0.008545447
0.018590748	0.011699275	0.007764796
0.018366332	0.011653019	0.007758056
0.017767994	0.011275524	0.007506626
0.016762063	0.010651241	0.007081152
0.015883068	0.01010706	0.006709053
0.015003229	0.009563994	0.006337227
0.00857219	0.005406663	0.003637932
0.009370272	0.00590564	0.003981871
0.010042142	0.006321497	0.004273982
0.010828546	0.006806945	0.004615644
0.011942568	0.007496293	0.005098103
0.013232455	0.008290401	0.005657132
0.014351892	0.008969542	0.006142689
0.015658482	0.00975698	0.006707585
0.017723423	0.011002663	0.007595104

# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.7216443

RESIDENTIAL RECEPTORS ONLY MAX: 54.9857

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.020114322	0.012427166	0.008616158
0.022599076	0.013882927	0.009666585
0.07409081	0.041544658	0.029885043
0.081077763	0.045052678	0.032470537
0.08775797	0.04839149	0.03492886
0.093695067	0.051367046	0.03711092
0.098410254	0.053760811	0.038846137
0.101532049	0.055405773	0.040001706
0.102689849	0.056129679	0.040442085
0.101765704	0.055871101	0.040123954
0.098850768	0.054654397	0.039076736
0.09426686	0.052605501	0.037412849
0.088484671	0.049919588	0.035295924
0.082032693	0.046825444	0.032908435
0.075409827	0.043550663	0.030424942
0.068971815	0.040268876	0.027974309
0.062977011	0.037122679	0.025657787
0.057512265	0.034178579	0.023517348
0.052200826	0.03125364	0.021416638
0.047974049	0.028884456	0.019731409
0.044164283	0.026725153	0.018207752
0.040655342	0.024718867	0.016801454
0.037503286	0.022904185	0.015535962
0.034695325	0.021278777	0.014407094
0.032172154	0.019810933	0.013391178
0.029897233	0.018481031	0.012472842
0.027863969	0.017286972	0.011649865
0.026034839	0.016207703	0.010906653
0.024406969	0.015244011	0.010243788
0.022782587	0.014286718	0.009584673
0.020888548	0.013170776	0.008810816
0.01941552	0.01225448	0.008181163
0.018553386	0.011743615	0.007836061
0.017945466	0.011354712	0.007574516
0.016962014	0.010743642	0.007158684
0.01605021	0.010181658	0.006774431
0.015239154	0.009681041	0.006432111
0.014492541	0.009218783	0.006115742
0.00864035	0.005444935	0.003668947
0.009464664	0.005959508	0.004023768
0.010149256	0.006382201	0.004321124
0.01090629	0.006847871	0.004650731
0.011969913	0.007502779	0.005110694
0.013280338	0.008306841	0.005677574
0.014400184	0.008982707	0.006161462
0.015808755	0.009828954	0.006767537
0.018217255	0.011277892	0.00779794
0.022292984	0.013655583	0.009515569
0.068267347	0.03845548	0.027607319
0.073680354	0.041203979	0.029622922

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3562253804575	356225	3804575	1.896848568
3562503804575	356250	3804575	2.121916068
3564753804575	356475	3804575	6.499950731
3565003804575	356500	3804575	7.065686885
3565253804575	356525	3804575	7.604562373
3565503804575	356550	3804575	8.084125111
3565753804575	356575	3804575	8.468146408
3566003804575	356600	3804575	8.729068534
3566253804575	356625	3804575	8.839209478
3566503804575	356650	3804575	8.78916411
3566753804575	356675	3804575	8.58393529
3567003804575	356700	3804575	8.245126729
3567253804575	356725	3804575	7.805422918
3567503804575	356750	3804575	7.302732033
3567753804575	356775	3804575	6.774368397
3568003804575	356800	3804575	6.248437813
3568253804575	356825	3804575	5.747477091
3568503804575	356850	3804575	5.281457194
3568753804575	356875	3804575	4.820881249
3569003804575	356900	3804575	4.449317238
3569253804575	356925	3804575	4.111616895
3569503804575	356950	3804575	3.798586037
3569753804575	356975	3804575	3.515966707
3570003804575	357000	3804575	3.263168527
3570253804575	357025	3804575	3.035151838
3570503804575	357050	3804575	2.82880106
3570753804575	357075	3804575	2.643722727
3571003804575	357100	3804575	2.476620449
3571253804575	357125	3804575	2.327511654
3571503804575	357150	3804575	2.179109891
3571753804575	357175	3804575	2.005930395
3572003804575	357200	3804575	1.86560227
3572253804575	357225	3804575	1.786831993
3572503804575	357250	3804575	1.728129824
3572753804575	357275	3804575	1.634750124
3573003804575	357300	3804575	1.548660658
3573253804575	357325	3804575	1.471984735
3573503804575	357350	3804575	1.401237512
3560003804600	356000	3804600	0.827721283
3560253804600	356025	3804600	0.906061875
3560503804600	356050	3804600	0.970546312
3560753804600	356075	3804600	1.041639191
3561003804600	356100	3804600	1.14164653
3561253804600	356125	3804600	1.264527062
3561503804600	356150	3804600	1.368202717
3561753804600	356175	3804600	1.498189841
3562003804600	356200	3804600	1.720723872
3562503804600	356250	3804600	2.088737355
3564753804600	356475	3804600	6.00913807
3565003804600	356500	3804600	6.450914139

# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.7216443

RESIDENTIAL RECEPTORS ONLY MAX: 54.9857

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3565253804600	356525	3804600	6.855837654
3565503804600	356550	3804600	7.203558105
3565753804600	356575	3804600	7.470577189
3566003804600	356600	3804600	7.631549842
3566253804600	356625	3804600	7.675077282
3566503804600	356650	3804600	7.599187196
3566753804600	356675	3804600	7.40949092
3567003804600	356700	3804600	7.123036467
3567253804600	356725	3804600	6.764266516
3567503804600	356750	3804600	6.360172517
3567753804600	356775	3804600	5.935554326
3568003804600	356800	3804600	5.508795965
3568253804600	356825	3804600	5.099072742
3568503804600	356850	3804600	4.716735248
3568753804600	356875	3804600	4.361075183
3569003804600	356900	3804600	4.001579138
3569253804600	356925	3804600	3.722767268
3569503804600	356950	3804600	3.468452757
3569753804600	356975	3804600	3.226353404
3570003804600	357000	3804600	3.007166901
3570253804600	357025	3804600	2.808315371
3570503804600	357050	3804600	2.62817506
3570753804600	357075	3804600	2.464251368
3571003804600	357100	3804600	2.312483588
3571253804600	357125	3804600	2.179529061
3571503804600	357150	3804600	2.061119284
3571753804600	357175	3804600	1.946545719
3572003804600	357200	3804600	1.835253966
3572253804600	357225	3804600	1.740952678
3572503804600	357250	3804600	1.641976213
3572753804600	357275	3804600	1.556140216
3573003804600	357300	3804600	1.481015809
3573253804600	357325	3804600	1.41039026
3573503804600	357350	3804600	1.346548581
3560003804625	356000	3804625	0.840465423
3560253804625	356025	3804625	0.915488478
3560503804625	356050	3804625	0.979911997
3560753804625	356075	3804625	1.05126238
3561003804625	356100	3804625	1.150513147
3561253804625	356125	3804625	1.268466049
3561503804625	356150	3804625	1.372773671
3564503804625	356450	3804625	5.182039474
3564753804625	356475	3804625	5.546348628
3565003804625	356500	3804625	5.888303707
3565253804625	356525	3804625	6.194281443
3565503804625	356550	3804625	6.447424423
3565753804625	356575	3804625	6.63012602
3566003804625	356600	3804625	6.725787318
3566253804625	356625	3804625	6.729096863
3566503804625	356650	3804625	6.640616011

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.078646777	0.043723673	0.031465074
0.082891365	0.045892264	0.033037832
0.086109765	0.047567217	0.034232354
0.087965857	0.048592537	0.034926684
0.088309392	0.048897121	0.035066791
0.087123731	0.048465352	0.034644212
0.084502572	0.047327488	0.033690659
0.080696075	0.045583568	0.03229183
0.076049559	0.043380071	0.030568325
0.070933246	0.040880863	0.028649758
0.065675525	0.038237544	0.026653085
0.060506218	0.035564162	0.024662352
0.055646433	0.032982335	0.0227654
0.05119528	0.030560259	0.021006694
0.04711811	0.028296796	0.019381104
0.04304602	0.02600003	0.017747956
0.039918213	0.024213679	0.016487981
0.037080168	0.022581285	0.015343744
0.034390259	0.02102469	0.014258205
0.031963353	0.019613781	0.013278134
0.029768272	0.018332476	0.012391225
0.027785868	0.017170616	0.01158872
0.025987498	0.016112354	0.010859094
0.02432863	0.015131479	0.010184096
0.022877967	0.014271784	0.009592746
0.021588011	0.01350585	0.009065904
0.020342635	0.012764535	0.008556266
0.019138308	0.012043399	0.008060376
0.018135299	0.011428073	0.007639893
0.017081113	0.010783004	0.007199432
0.016166756	0.010223653	0.006816594
0.015367561	0.00973391	0.006481028
0.014618701	0.009273056	0.006165531
0.01394263	0.008856253	0.005879931
0.008777643	0.005528068	0.003729081
0.009569218	0.006020456	0.004070236
0.01025455	0.006442472	0.00436802
0.011016386	0.006909336	0.004699258
0.01207523	0.007558626	0.005156582
0.01333824	0.008329436	0.005701342
0.014469232	0.009008413	0.006188176
0.058364717	0.033264114	0.023792332
0.062779315	0.035539732	0.025455734
0.066932547	0.037674569	0.027012361
0.070642603	0.039586341	0.028398526
0.073690207	0.041172812	0.029535869
0.075846541	0.042325909	0.030342166
0.076893461	0.042943698	0.030738612
0.076764809	0.042992126	0.030700998
0.075477924	0.042471824	0.030232921

# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.7216443

RESIDENTIAL RECEPTORS ONLY MAX: 54.9857

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3566753804625	356675	3804625	6.46712085
3567003804625	356700	3804625	6.223456555
3567253804625	356725	3804625	5.924153728
3567503804625	356750	3804625	5.59074105
3567753804625	356775	3804625	5.244745719
3568003804625	356800	3804625	4.896395851
3568253804625	356825	3804625	4.56048196
3568503804625	356850	3804625	4.241277259
3568753804625	356875	3804625	3.943906743
3569003804625	356900	3804625	3.66092232
3569253804625	356925	3804625	3.406504936
3569503804625	356950	3804625	3.178301366
3569753804625	356975	3804625	2.96979829
3570003804625	357000	3804625	2.779839511
3570253804625	357025	3804625	2.605565362
3570503804625	357050	3804625	2.445772373
3570753804625	357075	3804625	2.300006271
3571003804625	357100	3804625	2.166118856
3571253804625	357125	3804625	2.04838745
3571503804625	357150	3804625	1.935863156
3571753804625	357175	3804625	1.826230358
3572003804625	357200	3804625	1.732050383
3572253804625	357225	3804625	1.641002816
3572503804625	357250	3804625	1.554400394
3572753804625	357275	3804625	1.481802212
3573003804625	357300	3804625	1.414541986
3573253804625	357325	3804625	1.353444555
3573503804625	357350	3804625	1.291766273
3560003804650	356000	3804650	0.868159905
3560253804650	356025	3804650	0.926570016
3560503804650	356050	3804650	0.990379436
3560753804650	356075	3804650	1.06471986
3561003804650	356100	3804650	1.169937334
3561253804650	356125	3804650	1.287084594
3561503804650	356150	3804650	1.398904322
3564503804650	356450	3804650	4.822907523
3564753804650	356475	3804650	5.114340198
3565003804650	356500	3804650	5.380161238
3565253804650	356525	3804650	5.610228326
3565503804650	356550	3804650	5.793446524
3565753804650	356575	3804650	5.915794239
3566003804650	356600	3804650	5.967800878
3566253804650	356625	3804650	5.94661705
3566503804650	356650	3804650	5.854597414
3566753804650	356675	3804650	5.697523182
3567003804650	356700	3804650	5.489343392
3567253804650	356725	3804650	5.236511163
3567503804650	356750	3804650	4.957840718
3567753804650	356775	3804650	4.672665262
3568003804650	356800	3804650	4.384332626

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.073136473	0.041421363	0.029370278
0.069951034	0.039929224	0.028185773
0.066129801	0.03808176	0.026750999
0.061962365	0.036010433	0.025169472
0.057725538	0.033848201	0.023542336
0.053545971	0.031658694	0.021916438
0.049592523	0.029535913	0.020359671
0.045900183	0.02750884	0.018889466
0.042509022	0.025612555	0.017528701
0.039318159	0.023801632	0.016240971
0.036473667	0.022169252	0.015089151
0.033937272	0.020702186	0.014060428
0.031628625	0.019359989	0.013124421
0.029532092	0.018135761	0.012274168
0.027613522	0.017011781	0.011496018
0.02585894	0.015980257	0.010783875
0.024262462	0.015038598	0.010134908
0.022800451	0.014172843	0.009538968
0.021515898	0.013411482	0.009015583
0.020293855	0.012682725	0.008514843
0.019109179	0.011971494	0.008027236
0.018092556	0.011360361	0.007607907
0.017114406	0.010768629	0.007202326
0.01618769	0.010205067	0.006816589
0.015410896	0.009732607	0.006492499
0.014693331	0.009294471	0.006192108
0.014042606	0.008896355	0.005918696
0.013382174	0.008495333	0.005642098
0.009069781	0.00570965	0.003854505
0.00969079	0.006092282	0.004124053
0.010371691	0.006509836	0.00441967
0.011167163	0.00699584	0.004764267
0.012291939	0.007683624	0.005248864
0.013551302	0.008448121	0.005790795
0.014766545	0.009175265	0.006310824
0.05416076	0.030989333	0.022118551
0.057665713	0.032814837	0.023446707
0.060865279	0.034479728	0.024652337
0.063623062	0.035922873	0.025689253
0.065795866	0.037076559	0.026505441
0.067202559	0.03785433	0.027035556
0.067721808	0.038197673	0.027235418
0.067320568	0.038087684	0.027092104
0.066037419	0.03753703	0.026618526
0.063959913	0.03657881	0.025843694
0.061278053	0.035297396	0.024835332
0.058093176	0.033729569	0.023626077
0.0546504	0.031991534	0.022305859
0.051193055	0.030203282	0.020964543
0.047762695	0.028385591	0.019618131



# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.7216443

RESIDENTIAL RECEPTORS ONLY MAX: 54.9857

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3568253804650	356825	3804650	4.104181294
3568503804650	356850	3804650	3.835327667
3568753804650	356875	3804650	3.583163958
3569003804650	356900	3804650	3.348190153
3569253804650	356925	3804650	3.12476567
3569503804650	356950	3804650	2.923388188
3569753804650	356975	3804650	2.74294718
3570003804650	357000	3804650	2.577267736
3570253804650	357025	3804650	2.423522157
3570503804650	357050	3804650	2.281781204
3570753804650	357075	3804650	2.152283851
3571003804650	357100	3804650	2.032981739
3571253804650	357125	3804650	1.92482074
3571503804650	357150	3804650	1.821209477
3571753804650	357175	3804650	1.721700806
3572003804650	357200	3804650	1.635351219
3572253804650	357225	3804650	1.554717744
3572503804650	357250	3804650	1.479556329
3572753804650	357275	3804650	1.413741699
3573003804650	357300	3804650	1.353079812
3573253804650	357325	3804650	1.300502783
3573503804650	357350	3804650	1.22891633
3560003804675	356000	3804675	0.880752693
3560253804675	356025	3804675	0.939529886
3560503804675	356050	3804675	0.999330808
3560753804675	356075	3804675	1.078077256
3564253804675	356425	3804675	4.236433728
3564503804675	356450	3804675	4.48416339
3564753804675	356475	3804675	4.716264051
3565003804675	356500	3804675	4.924664489
3565253804675	356525	3804675	5.095259821
3565503804675	356550	3804675	5.226725032
3565753804675	356575	3804675	5.306407323
3566003804675	356600	3804675	5.329088431
3566253804675	356625	3804675	5.293563677
3566503804675	356650	3804675	5.202556681
3566753804675	356675	3804675	5.06062454
3567003804675	356700	3804675	4.881219007
3567253804675	356725	3804675	4.667710717
3567503804675	356750	3804675	4.433688518
3567753804675	356775	3804675	4.194293756
3568003804675	356800	3804675	3.951726853
3568253804675	356825	3804675	3.714365049
3568503804675	356850	3804675	3.486134694
3568753804675	356875	3804675	3.270828474
3569003804675	356900	3804675	3.068623388
3569253804675	356925	3804675	2.87635004
3569503804675	356950	3804675	2.698394601
3569753804675	356975	3804675	2.53971562
3570003804675	357000	3804675	2.395102809

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.04448839	0.026610754	0.018318931
0.041396118	0.024899683	0.017079682
0.038534612	0.023288714	0.01592433
0.035896087	0.021782781	0.014853778
0.033407148	0.020347169	0.0138406
0.031176749	0.019050857	0.012931909
0.029185771	0.017887937	0.012121277
0.027362687	0.016819069	0.011378945
0.025675014	0.015826285	0.010691582
0.024122071	0.014910595	0.010059573
0.02270632	0.014073392	0.009482805
0.021404858	0.013301705	0.00895181
0.020227141	0.012601684	0.008470686
0.019103056	0.01193027	0.008009804
0.018027819	0.011284649	0.007567139
0.017095791	0.010724199	0.007182894
0.016227973	0.010200433	0.006823995
0.015421591	0.009711688	0.006489204
0.014716418	0.00928348	0.006195186
0.014067713	0.008888691	0.005924512
0.01350529	0.008546409	0.005688402
0.012729698	0.008083225	0.005368272
0.009206145	0.005791608	0.0039142
0.00983251	0.006176392	0.004185874
0.01047373	0.006567084	0.004464525
0.011317982	0.007081419	0.004828635
0.047245243	0.027285664	0.019410415
0.050198656	0.028842424	0.020540509
0.052970096	0.030300085	0.021594966
0.0554556	0.031609462	0.022536858
0.05747461	0.032683776	0.023300042
0.059007064	0.033515708	0.023879462
0.05989285	0.034026771	0.024215858
0.060067456	0.034184163	0.024285258
0.059518046	0.033979715	0.024082611
0.058287254	0.033428577	0.023621928
0.056442941	0.032557233	0.022926639
0.054163608	0.031447621	0.022060268
0.051505261	0.030118611	0.02104124
0.04864414	0.028653847	0.019933348
0.04576767	0.02714813	0.018807789
0.04290369	0.025614853	0.01767513
0.040147061	0.02410767	0.016573727
0.037535464	0.022652407	0.015521265
0.035102663	0.021274581	0.014534063
0.032840975	0.019976711	0.013611657
0.030706564	0.018739742	0.012739122
0.028741926	0.017592817	0.011935262
0.026997097	0.016568833	0.011221196
0.025410384	0.015634925	0.010572942

# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.7216443

RESIDENTIAL RECEPTORS ONLY MAX: 54.9857

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3570253804675	357025	3804675	2.259220357
3570503804675	357050	3804675	2.133835539
3570753804675	357075	3804675	2.018257953
3571003804675	357100	3804675	1.910897112
3571253804675	357125	3804675	1.811629243
3571503804675	357150	3804675	1.718341548
3571753804675	357175	3804675	1.631408832
3572003804675	357200	3804675	1.552510611
3572253804675	357225	3804675	1.479408784
3572503804675	357250	3804675	1.411486457
3572753804675	357275	3804675	1.35009894
3573003804675	357300	3804675	1.294234689
3573253804675	357325	3804675	1.245936113
3573503804675	357350	3804675	1.196694573
3560003804700	356000	3804700	0.894195833
3560253804700	356025	3804700	0.951187435
3560503804700	356050	3804700	1.011414208
3561003804700	356100	3804700	1.267519135
3564253804700	356425	3804700	3.965181027
3564503804700	356450	3804700	4.166901651
3564753804700	356475	3804700	4.352818883
3565003804700	356500	3804700	4.51525673
3565253804700	356525	3804700	4.644647116
3565503804700	356550	3804700	4.735823252
3565753804700	356575	3804700	4.78321017
3566003804700	356600	3804700	4.785272031
3566253804700	356625	3804700	4.741710775
3566503804700	356650	3804700	4.653842524
3566753804700	356675	3804700	4.527245999
3567003804700	356700	3804700	4.372585376
3567253804700	356725	3804700	4.191044081
3567503804700	356750	3804700	3.992554438
3567753804700	356775	3804700	3.788723062
3568003804700	356800	3804700	3.582338365
3568253804700	356825	3804700	3.379387366
3568503804700	356850	3804700	3.184187612
3568753804700	356875	3804700	2.998476196
3569003804700	356900	3804700	2.823778247
3569253804700	356925	3804700	2.65896694
3569503804700	356950	3804700	2.50058086
3569753804700	356975	3804700	2.358444549
3570003804700	357000	3804700	2.227911069
3570253804700	357025	3804700	2.107479634
3570503804700	357050	3804700	1.999263663
3570753804700	357075	3804700	1.896097701
3571003804700	357100	3804700	1.799405812
3571253804700	357125	3804700	1.709466722
3571503804700	357150	3804700	1.626135501
3571753804700	357175	3804700	1.549857056
3572003804700	357200	3804700	1.477963338

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.023922453	0.014756766	0.009965324
0.022552234	0.013945958	0.009405622
0.02129089	0.01319829	0.008890823
0.020121608	0.012503322	0.008412942
0.019042577	0.011860381	0.00797122
0.018031056	0.011255765	0.007556521
0.017090938	0.010691818	0.007169731
0.016239441	0.010179681	0.006818786
0.015452144	0.009704931	0.006493482
0.014722749	0.009263272	0.006190755
0.014064588	0.008863968	0.005916938
0.013466586	0.008500413	0.005667652
0.012949478	0.008186051	0.005450857
0.012419567	0.007866364	0.005230148
0.009351954	0.005879033	0.003978056
0.009961895	0.006251547	0.004241902
0.010609605	0.00664462	0.004522465
0.013351529	0.008317523	0.005698721
0.044106729	0.025559546	0.018145158
0.046496957	0.026829829	0.019063215
0.048699833	0.028000392	0.019905023
0.050619273	0.029023894	0.020635835
0.052132609	0.029841606	0.021210788
0.05317329	0.030421844	0.021606334
0.053671933	0.030729787	0.02179708
0.053609436	0.030755748	0.021775692
0.052986361	0.030496858	0.021541694
0.051826086	0.029960128	0.021102508
0.050205723	0.029178759	0.020485309
0.048264276	0.028218364	0.01974055
0.046027808	0.027084392	0.018875012
0.043623941	0.025838196	0.017936546
0.041194848	0.024552541	0.016978562
0.038774985	0.023244821	0.016015019
0.036431396	0.021953474	0.015072985
0.034208499	0.020706599	0.014172152
0.032118333	0.019516432	0.013320254
0.030170878	0.018393692	0.01252278
0.028347266	0.017332105	0.011774332
0.026603923	0.016310138	0.011058043
0.025045455	0.015391972	0.010418023
0.023617542	0.014548011	0.009832294
0.022302485	0.013769064	0.009293806
0.021121961	0.0130688	0.008810571
0.019998333	0.012400921	0.008351038
0.018947154	0.011774615	0.007920371
0.01797086	0.011191824	0.007520295
0.017067624	0.010651611	0.007150044
0.016242615	0.010156765	0.006810423
0.015466637	0.009690093	0.006490781

# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.7216443

RESIDENTIAL RECEPTORS ONLY MAX: 54.9857

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3572253804700	357225	3804700	1.410607256
3572503804700	357250	3804700	1.347882729
3572753804700	357275	3804700	1.290245732
3573003804700	357300	3804700	1.237849525
3573253804700	357325	3804700	1.192021968
3573503804700	357350	3804700	1.150569647
3560003804725	356000	3804725	0.909103662
3560253804725	356025	3804725	0.961135487
3560503804725	356050	3804725	1.02648056
3564003804725	356400	3804725	3.536706821
3564253804725	356425	3804725	3.7124586
3564503804725	356450	3804725	3.876290175
3564753804725	356475	3804725	4.021220172
3565003804725	356500	3804725	4.146710901
3565253804725	356525	3804725	4.242766116
3565503804725	356550	3804725	4.305392097
3565753804725	356575	3804725	4.331365177
3566003804725	356600	3804725	4.320635719
3566253804725	356625	3804725	4.272974591
3566503804725	356650	3804725	4.190260866
3566753804725	356675	3804725	4.077400531
3567003804725	356700	3804725	3.940982933
3567253804725	356725	3804725	3.785060093
3567503804725	356750	3804725	3.615628994
3567753804725	356775	3804725	3.441851602
3568003804725	356800	3804725	3.264651888
3568253804725	356825	3804725	3.089827525
3568503804725	356850	3804725	2.921767767
3568753804725	356875	3804725	2.760004657
3569003804725	356900	3804725	2.607520231
3569253804725	356925	3804725	2.464010464
3569503804725	356950	3804725	2.328628722
3569753804725	356975	3804725	2.20196775
3570003804725	357000	3804725	2.069941914
3570253804725	357025	3804725	1.961708203
3570503804725	357050	3804725	1.875737173
3570753804725	357075	3804725	1.784282494
3571003804725	357100	3804725	1.69849104
3571253804725	357125	3804725	1.617148826
3571503804725	357150	3804725	1.542281721
3571753804725	357175	3804725	1.473928449
3572003804725	357200	3804725	1.407240155
3572253804725	357225	3804725	1.346179432
3572503804725	357250	3804725	1.288309194
3572753804725	357275	3804725	1.234171419
3573003804725	357300	3804725	1.184729926
3573253804725	357325	3804725	1.141339726
3573503804725	357350	3804725	1.104668027
3560003804750	356000	3804750	0.945255551
3560253804750	356025	3804750	0.993553517

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.014741347	0.009252509	0.006191126
0.014067483	0.008844721	0.005911776
0.013449491	0.00846982	0.005654954
0.012888673	0.008128731	0.005421006
0.012397998	0.007830477	0.005216083
0.011954195	0.00756063	0.005029795
0.009513858	0.005975919	0.004048368
0.010073773	0.006315416	0.004290465
0.010777483	0.006741539	0.004593301
0.039120649	0.022840054	0.016166515
0.041188587	0.023949763	0.016967471
0.043117512	0.024983676	0.017710748
0.044818941	0.025898927	0.018363799
0.046287217	0.026691918	0.018925135
0.047395085	0.027301367	0.019348065
0.048092757	0.027702394	0.019614589
0.048340029	0.027874795	0.019709741
0.048136859	0.027818167	0.019633545
0.047485522	0.027530141	0.019385502
0.046413974	0.02702139	0.01897582
0.044988713	0.026321643	0.01842774
0.043296634	0.025471116	0.017772774
0.041394563	0.024493981	0.017030567
0.039359951	0.023427316	0.016230295
0.037304338	0.02232851	0.015413737
0.035239786	0.021203368	0.014586874
0.033231434	0.020088825	0.013775304
0.031325644	0.019013648	0.012999634
0.029511669	0.017975583	0.012257002
0.027817389	0.016994346	0.011560595
0.026233844	0.016069046	0.01090835
0.024747629	0.015194745	0.010295826
0.023362352	0.014375744	0.009725231
0.02192252	0.013521195	0.009132116
0.020744403	0.012820337	0.008647649
0.019808078	0.012263692	0.008264005
0.018813629	0.011671331	0.007856647
0.017882192	0.011115333	0.007474655
0.01700047	0.010587922	0.007112648
0.016189769	0.010102381	0.006779853
0.015450448	0.009658912	0.006475746
0.014731291	0.009225856	0.006179319
0.014073726	0.008829216	0.00590764
0.013452056	0.008452918	0.005650161
0.012871635	0.008100746	0.005409016
0.01234246	0.007778837	0.005188499
0.011877871	0.007496461	0.004994952
0.011484916	0.007257814	0.004829866
0.009899761	0.006212067	0.004213784
0.010422435	0.006526574	0.004439015

# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.7216443

RESIDENTIAL RECEPTORS ONLY MAX: 54.9857

Overlapping Phases - Maximum GLC		
2023	2024	2025

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3560503804750	356050	3804750	1.059722994
3564003804750	356400	3804750	3.327891959
3564253804750	356425	3804750	3.473330523
3564503804750	356450	3804750	3.606185104
3564753804750	356475	3804750	3.721657516
3565003804750	356500	3804750	3.816994605
3565253804750	356525	3804750	3.887123754
3565503804750	356550	3804750	3.928923343
3565753804750	356575	3804750	3.940486606
3566003804750	356600	3804750	3.922075997
3566253804750	356625	3804750	3.873209623
3566503804750	356650	3804750	3.796687707
3566753804750	356675	3804750	3.695740109
3567003804750	356700	3804750	3.575399277
3567253804750	356725	3804750	3.439768034
3567503804750	356750	3804750	3.293415867
3567753804750	356775	3804750	3.143243139
3568003804750	356800	3804750	2.988979443
3568253804750	356825	3804750	2.836823497
3568503804750	356850	3804750	2.69023686
3568753804750	356875	3804750	2.548969413
3569003804750	356900	3804750	2.414822447
3569253804750	356925	3804750	2.288217698
3569503804750	356950	3804750	2.169070744
3569753804750	356975	3804750	2.05736269
3570003804750	357000	3804750	1.950725709
3570253804750	357025	3804750	1.853599236
3570503804750	357050	3804750	1.765929116
3570753804750	357075	3804750	1.682515144
3571003804750	357100	3804750	1.603985765
3571253804750	357125	3804750	1.531174156
3571503804750	357150	3804750	1.463417191
3571753804750	357175	3804750	1.393121012
3572003804750	357200	3804750	1.329310169
3572253804750	357225	3804750	1.285962902
3572503804750	357250	3804750	1.232575436
3572753804750	357275	3804750	1.18238313
3573003804750	357300	3804750	1.135889768
3573253804750	357325	3804750	1.093352971
3573503804750	357350	3804750	1.05858212
3570003804150	357000	3804150	16.66602311
3570503804150	357050	3804150	10.3424458
3571003804150	357100	3804150	7.424207062
3573503804250	357350	3804250	1.511797887
3573003804300	357300	3804300	1.545782929
3573503804300	357350	3804300	1.382915915
3573503804350	357350	3804350	1.347421735
3568503804400	356850	3804400	15.22914657
3568503804450	356850	3804450	10.60038899
3569003804450	356900	3804450	8.14760232

0.011137076	0.006957703	0.004745864
0.036730026	0.02150591	0.015193001
0.038432265	0.022425732	0.015854356
0.039985978	0.023265905	0.016454861
0.041330288	0.023996972	0.016972761
0.042432821	0.024601432	0.017395903
0.043228425	0.025048399	0.017701215
0.043678957	0.025318149	0.017873789
0.043761034	0.025398792	0.017905183
0.043478518	0.025291851	0.017797297
0.042830439	0.024993366	0.017548406
0.041854602	0.024520142	0.017171449
0.040595282	0.023891671	0.016683238
0.039118571	0.023138732	0.016106837
0.037478985	0.022286293	0.015462387
0.035735531	0.021362411	0.014771532
0.033970949	0.02041086	0.014066952
0.032184151	0.019429279	0.013347053
0.030444688	0.018457737	0.012641185
0.028788889	0.017518513	0.0119644
0.027210216	0.016610761	0.011315478
0.025723927	0.015746616	0.010702619
0.024330868	0.014929435	0.010126912
0.023026293	0.014159245	0.009587627
0.021807686	0.013436291	0.009083876
0.020646976	0.012745701	0.008604918
0.019591539	0.012116299	0.008169723
0.018639576	0.011548133	0.007778348
0.017734692	0.011007346	0.007406438
0.01688376	0.010497969	0.007056535
0.016095314	0.010025728	0.006732826
0.015362509	0.009586085	0.006431534
0.014604739	0.009129434	0.006119331
0.013917785	0.008714849	0.005835523
0.01344799	0.008433884	0.005642769
0.012874612	0.008086686	0.005405044
0.012336757	0.007760079	0.005181685
0.011839225	0.007457349	0.004974528
0.01138425	0.007180425	0.004785065
0.011011801	0.006954087	0.004629096
0.0161569537	0.111211363	0.069718329
0.0101829296	0.06886163	0.044295293
0.073746948	0.049341927	0.031956719
0.015574545	0.009953516	0.006664648
0.016048345	0.01014351	0.006785326
0.014325121	0.009084845	0.006074498
0.014052252	0.008833006	0.005886439
0.171158697	0.097367313	0.066964081
0.118020501	0.068034798	0.046928788
0.08868064	0.052682034	0.035963242

# Wiley Canyon Construction Health Risk Assessment - Unmitigated

Residential Health Risk Assessment Results Summary

**RESIDENTIAL RECEPTORS ONLY**                      MAX:                      54.9857

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3569503804450	356950	3804450	5.602668927
3571503804450	357150	3804450	2.527258698
3573503804450	357350	3804450	1.525971751

**FOR CHRONIC CALCS**

MAX:                      0.7216443

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.059949362	0.036426496	0.024573504
0.026555158	0.016539059	0.011031426
0.015929859	0.010005281	0.006611678

**Wiley Canyon Construction Health Risk Assessment - Unmitigated**

Maximum Individual Non-Cancer Impact Calculations - Sensitive Receptors (Maximum Impacted Senior Residential Receptor) (IMPACT AT ALL OTHER LOCATIONS ON THE PROJECT SITE WOULD BE LESS THAN SHOWN)

Maximum Non-cancer Chronic Hazards / Toxicological Endpoints\*

Receptor Group	Pollutant	CREL <sup>1</sup>	CONC	WFrac	CONC <sub>WF</sub>	HI		ALIM	BN	CVS	DEV	ENDC	EYE	HEM	IMMUN	KIDN	NS	REPRO	RESP	SK	
<b>Project:</b>																					
MEI - Max	DPM	5.00E+00	7.22E-01	1.00E+00	7.22E-01	1.44E-01		-	-	-	-	-	-	-	-	-	-	-	1.44E-01	-	
							<b>Total Risk</b>				-			-					-	0.144	
							<b>Threshold</b>				1.00			1.00					1.00	1.00	
							<b>Over?</b>				NO			NO					NO	NO	

Notes:

- California Air Resources Board, "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values," "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs," "OEHHA/ARB Approved Acute Reference Exposure Levels and Target Organs," and "OEHHA/ARB Approved 8-Hour Reference Exposure Levels and Target Organs," <http://www.arb.ca.gov/toxics/healthval/healthval.htm>. Tables last updated: May 8, 2018. Downloaded: 08/14/18.

Source: ESA, 2020

Where:

CONC <sub>WF</sub>	Pollutant Concentration (µg/m <sup>3</sup> ) multiplied by the weight fraction
CREL	Chronic Reference Exposure Level
HI	Hazard Index
MEI	Maximally Exposed Individual
WFrac	Weight fraction of speciated component

\* Key to Toxicological Endpoints

ALIM	Alimentary Tract	EYE	Eye	NS	Nervous System
BN	Bone	HEM	Hematologic System	REPRO	Reproductive System
CVS	Cardiovascular System	IMMUN	Immune System	RESP	Respiratory System
DEV	Developmental System	KIDN	Kidney	SK	Skin
ENDC	Endocrine System				

## **C-3 Mitigated Construction Health Risk Assessment**







Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading/Excavation		Drainage/Utilities Sub-Grade		Drainage/Utilities Foundations/Concrete Pour		Building Construction_Footprint		Building Construction_Footprint		Building Construction_Senior		Building Construction_Senior		Building Construction_Senior		Architectural Coatings		Paving		Child Risk			Total	per million
			2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	3rd Trimester	0-2	2-16		
3573253803650	357325	3803650	0.000367164	0.00036962	0.001115409	0.000653936	0.000653936	0.000278369	0.000329234	0.000296828	0.000131809	0.00018835	0.0007697	0.000123827	0.00020018	1.17282E-08	2.49208E-07	1.85162E-08	2.79452E-07	0.279452											
3573503803650	357350	3803650	0.000357573	0.00034005	0.001038258	0.000606704	0.000606704	0.00025812	0.000314383	0.000283439	0.000127983	0.00015386	0.000371212	0.000118242	0.00001913	1.09594E-08	3.24355E-07	1.76605E-08	2.62905E-07	0.262905											
3572003803675	357200	3803675	0.000390814	0.00052978	0.00198754	0.000937308	0.000937308	0.000385276	0.000437336	0.00033267	0.000142357	0.000128345	0.00044897	0.00023274	1.64471E-08	3.33565E-07	2.1817E-08	3.7182E-07	0.37182												
3572253803675	357225	3803675	0.000378235	0.00047091	0.001421079	0.000833142	0.000833142	0.000307632	0.000363848	0.000328032	0.000137461	0.000123931	0.00067824	0.000136845	0.000202013	1.4702E-08	3.02241E-07	2.05741E-08	3.37517E-07	0.337517											
3573253803675	357325	3803675	0.000375139	0.00037345	0.001126975	0.000667017	0.000667017	0.000286193	0.000338485	0.000350172	0.000135961	0.000121794	0.00079312	0.000127308	0.00020564	1.1861E-08	2.52040E-07	1.90563E-08	2.84122E-07	0.284122											
3573503803675	357350	3803675	0.000379599	0.00035132	0.001060186	0.000621556	0.000621556	0.000276023	0.000323646	0.000294227	0.000132178	0.000119168	0.000761734	0.000122784	0.000019185	1.11984E-08	2.40055E-07	1.83606E-08	2.70064E-07	0.270064											
3571753803700	357175	3803700	0.000412792	0.00061477	0.001085387	0.001105354	0.001105354	0.000357793	0.000423171	0.000381519	0.000151088	0.000136217	0.000127056	0.000159157	0.00025507	1.92668E-08	3.8405E-07	2.40398E-08	4.28157E-07	0.428157											
3572003803700	357200	3803700	0.000395254	0.0005409	0.001632289	0.000959699	0.000959699	0.000331011	0.000391495	0.000352961	0.000144302	0.000130099	0.000942913	0.000147244	0.00023665	1.6782E-08	3.40043E-07	2.22084E-08	3.79033E-07	0.379033											
3572253803700	357225	3803700	0.000383113	0.0004797	0.001447625	0.000848706	0.000848706	0.000312541	0.000396951	0.00033267	0.000139508	0.000125276	0.00085845	0.000139028	0.00022386	1.49708E-08	3.07619E-07	2.09514E-08	3.43541E-07	0.343541											
3572503803700	357250	3803700	0.000382593	0.00044256	0.001335534	0.00078299	0.00078299	0.000307239	0.00036338	0.000327613	0.000138973	0.000125294	0.000864241	0.000136667	0.00022	1.38898E-08	2.8964E-07	2.05386E-08	3.24068E-07	0.324068											
3572753803700	357275	3803700	0.000379085	0.00041132	0.001241275	0.000772728	0.000772728	0.00029856	0.000353115	0.000318359	0.000137378	0.000123856	0.000835415	0.000132809	0.00021407	1.29725E-08	2.73387E-07	1.99329E-08	3.06292E-07	0.306292											
3573003803700	357300	3803700	0.000378564	0.00038891	0.001173643	0.000688077	0.000688077	0.000293597	0.000347245	0.000313067	0.000136861	0.000123339	0.000818171	0.000130601	0.00021072	1.23197E-08	2.62107E-07	1.95821E-08	2.94009E-07	0.294009											
3573253803700	357325	3803700	0.00037555	0.00036811	0.00111087	0.000651275	0.000651275	0.000286288	0.000338601	0.000305273	0.000135423	0.000122094	0.000794111	0.00012735	0.00020566	1.1707E-08	2.50878E-07	1.90733E-08	2.81658E-07	0.281658											
3573503803700	357350	3803700	0.000371439	0.00034939	0.001054363	0.000618146	0.000618146	0.000278342	0.000329202	0.000296799	0.000133607	0.000120456	0.000768421	0.000123815	0.00020013	1.11517E-08	2.4038E-07	1.85228E-08	2.70054E-07	0.270054											
3571503803725	357150	3803725	0.000446555	0.00075994	0.002193309	0.001344508	0.001344508	0.00045729	0.00047866	0.000432634	0.000164238	0.000148153	0.00117848	0.000180481	0.00028849	2.32863E-08	4.58498E-07	2.73442E-08	5.09129E-07	0.509129											
3571753803725	357175	3803725	0.000420466	0.0006399	0.001931051	0.001132126	0.001132126	0.00036498	0.000431671	0.000389182	0.000156424	0.00013906	0.00104988	0.000162354	0.00026017	1.97272E-08	3.93758E-07	2.45465E-08	4.48032E-07	0.448032											
3572003803725	357200	3803725	0.000405969	0.00055672	0.001680041	0.000984965	0.000984965	0.00034171	0.000404149	0.00036347	0.000148479	0.000133864	0.000974531	0.000152003	0.00024403	1.72706E-08	3.50216E-07	2.29415E-08	3.90428E-07	0.390428											
3572253803725	357225	3803725	0.00040216	0.00050572	0.001511041	0.000858585	0.000858585	0.000332027	0.000394093	0.000355303	0.000146736	0.000132293	0.000969469	0.000148221	0.00023833	1.56327E-08	3.28054E-07	2.23409E-08	3.60282E-07	0.360282											
3572503803725	357250	3803725	0.000395692	0.00045555	0.001374732	0.00080597	0.00080597	0.00032623	0.00037921	0.000341885	0.000143979	0.000129808	0.000909453	0.000142623	0.0002294	1.43024E-08	2.92726E-07	2.14535E-08	3.35032E-07	0.335032											
3572753803725	357275	3803725	0.000391006	0.00041255	0.001271719	0.000745811	0.000745811	0.000309883	0.000363521	0.000330433	0.000149105	0.000127937	0.000896168	0.000137846	0.00022206	1.33015E-08	2.82609E-07	2.07064E-08	3.15245E-07	0.315245											
3573003803725	357300	3803725	0.000389389	0.00039722	0.001198704	0.000702769	0.000702769	0.000303279	0.000358697	0.000323391	0.000149075	0.000127081	0.000848637	0.000134908	0.00021759	1.25901E-08	2.68657E-07	2.0244E-08	3.01491E-07	0.301491											
3573253803725	357325	3803725	0.000385196	0.00037414	0.001129063	0.000661941	0.000661941	0.000294696	0.000348544	0.000314238	0.000139074	0.000125385	0.000818938	0.000131019	0.00021164	1.19081E-08	2.56049E-07	1.96486E-08	2.87605E-07	0.287605											
3573503803725	357350	3803725	0.000377961	0.00035134	0.001060267	0.000621607	0.000621607	0.00028378	0.000335634	0.000302598	0.000136105	0.000127709	0.000784481	0.000126344	0.00020398	1.1226E-08	2.42871E-07	1.88967E-08	2.72994E-07	0.272994											
3571003803750	357100	3803750	0.000497527	0.00116268	0.002057049	0.002057049	0.000493438	0.000583602	0.000526159	0.000184833	0.00016664	0.000162498	0.000219497	0.00034865	0.00031291E-08	6.65242E-07	3.34364E-08	7.3109E-07	0.73109												
3571253803750	357125	3803750	0.00047237	0.00029765	0.002799425	0.001641232	0.001641232	0.00047441	0.0005292	0.000477112	0.000174848	0.000157638	0.0001312279	0.000199036	0.00031659	2.82030E-08	5.4549E-07	3.02306E-08	6.03401E-07	0.603401											
3571503803750	357150	3803750	0.000449948	0.00076665	0.00231355	0.001356375	0.001356375	0.000480805	0.000482913	0.00045381	0.000165812	0.000149492	0.000184272	0.000181627	0.00028941	2.34899E-08	4.62321E-07	2.7499E-08	5.13309E-07	0.513309											
3571753803750	357175	3803750	0.000436308	0.0006572	0.001983875	0.001162735	0.001162735	0.000389951	0.000454109	0.000409411	0.000160631	0.00014482	0.000106944	0.000170793	0.00027318	2.02741E-08	4.06814E-07	2.58381E-08	4.52292E-07	0.452292											
3572003803750	357200	3803750	0.000423096	0.00057381	0.001751608	0.001015198	0.001015198	0.000360559	0.000426442	0.000384669	0.000155071	0.000139808	0.000103259	0.000160388	0.0002573	1.78133E-08	3.63178E-07	2.42325E-08	4.05224E-07	0.405224											
3572253803750	357225	3803750	0.000420932	0.00051832	0.001634174	0.000917036	0.000917036	0.000350139	0.000417525	0.000376429	0.000153882	0.000138735	0.000106452	0.000157034	0.00025232	1.61948E-08	3.30527E-07	2.36952E-08	3.76242E-07	0.376242											
3572503803750	357250	3803750	0.000418109	0.00047682	0.00143881	0.000843596	0.000843596	0.00034632	0.00040524	0.000356353	0.000152406	0.000137405	0.000970236	0.000152414	0.00024504	1.49807E-08	3.1511E-07	2.29533E-08	3.53044E-07	0.353044											
3572753803750	357275	3803750	0.000411778	0.00044039	0.00128988	0.000779152	0.000779152	0.000389875	0.0003515	0.000154977	0.000134945	0.000927844	0.000146635	0.00023611	1.3905E-08	2.95371E-07	2.20518E-08	3.31328E-07	0.331328												
3573003803750	357300	3803750	0.000406709	0.00041107	0.001240512	0.000727281	0.000727281	0.000319023	0.00037317	0.000340179	0.000147418	0.000132908	0.000893259	0.000141912	0.00022879	1.30392E-08	2.79437E-07	2.13154E-08	3.13792E-07	0.313792											
3573253803750	357325	3803750	0.00040046	0.000383501	0.001161876	0.000681178	0.000681178	0.000307917	0.000328336	0.000147445	0.000134048	0.000857587	0.000136971	0.00022106	1.22651E-08	2.67976E-07	2.05472E-08	2.97608E-07	0.297608												
3573503803750	357350	3803750	0.000389362	0.000351801	0.001080388	0.000634304	0.000634304	0.000293123	0.000346684	0.000312561	0.000140356	0.000126541	0.000811612	0.000130339	0.00021067	1.14504E-08	2.48632E-07	1.95237E-08	2.79615E-07	0.279615											
3571003803775	357100	3803775	0.000506625	0.00115705	0.003491691	0.002047089	0.002047089	0.000513914	0.000670782	0.000547993	0.000188844	0.000170256	0.001528235	0.000228605	0.00036149	3.49899E-08	6.6527E-07	3.48238E-08	7.35088E-07	0.735088											
3571253803775	357125	3803775	0.000485779	0.00093467	0.002802059	0.00165364	0.00165364	0.000470941	0.000556994	0.000502127	0.000181007	0.000163191	0.001385608	0.000209489	0.00033242	2.8475E-08	5.54373E-07	3.18325E-08	6.14683E-07	0.614683											
3571503803775	357150	3803775	0.000467903	0.0007799	0.002353551	0.001379827	0.0																								

Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading/Excavation		Drainage/Utilities Sub-Grade		Drainage/Utilities Sub-Grade		Foundations/Concrete Pour		Building Construction_Footprint		Building Construction_Footprint		Building Construction_Sensor		Building Construction_Sensor		Building Construction_Sensor		Architectural Coatings		Paving		Child Risk			per million			
			2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	3rd Trimester	0<2	2<16		Total		
3570753803850	357075		3803850	0.000607391	0.00139592	0.00421252	0.002469712	0.002469712	0.002469712	0.00028576	0.00072856	0.000861706	0.00077689	0.000228388	0.00025908	0.002244762	0.000324094	0.00050725	4.22033E-07	6.27518E-07	9.19575E-07	0.919575E-07	0.919575E-07												
3571003803850	357100		3803850	0.000602705	0.00113596	0.0034286405	0.002009769	0.002009769	0.000660801	0.000781547	0.00070462	0.000227033	0.000202477	0.0001999372	0.000293945	0.000466337	3.46345E-08	6.95027E-07	4.04159E-08	7.74678E-07	0.676681E-07	0.774678E-07													
3571253803850	357125		3803850	0.000576397	0.0009492	0.00482443	0.001679352	0.001679352	0.000594585	0.000703232	0.000634014	0.000179352	0.000179352	0.00026404	0.00026404	0.000210662	0.000189566	0.001649618	0.000246798	0.00039303	2.53941E-08	5.27112E-07	3.76933E-08	5.50199E-07	0.50199E-07										
3571503803850	357150		3803850	0.000563517	0.00082166	0.002479578	0.001453713	0.001453713	0.000554812	0.000566591	0.000591604	0.000210262	0.000189566	0.001649618	0.000246798	0.00039303	2.53941E-08	5.27112E-07	3.76933E-08	5.50199E-07	0.50199E-07	0.50199E-07													
3571753803850	357175		3803850	0.000553487	0.00072735	0.002194953	0.001286845	0.001286845	0.000254613	0.000620474	0.000559402	0.000210262	0.000189566	0.001649618	0.000246798	0.00039303	2.53941E-08	5.27112E-07	3.76933E-08	5.50199E-07	0.50199E-07	0.50199E-07													
3572003803850	357200		3803850	0.000540935	0.00065177	0.001966875	0.001153129	0.001153129	0.000490495	0.000580122	0.000523021	0.000200292	0.000180397	0.001430079	0.000218188	0.00034895	2.03954E-08	4.34574E-07	3.31487E-08	4.88118E-07	0.488118E-07	0.488118E-07													
3572253803850	357225		3803850	0.000529672	0.00059014	0.001048086	0.001044088	0.001044088	0.000462289	0.000456762	0.000492945	0.000200905	0.000175892	0.00133605	0.000205641	0.00032967	1.85738E-08	3.99966E-07	3.11782E-08	4.49448E-07	0.449448E-07	0.449448E-07													
3572503803850	357250		3803850	0.00050668	0.00053	0.001599396	0.000937685	0.000937685	0.000425785	0.000503587	0.00045402	0.000185875	0.00016758	0.001218857	0.000189402	0.00030419	1.67641E-08	3.62967E-07	2.8648E-08	4.08379E-07	0.408379E-07	0.408379E-07													
3572753803850	357275		3803850	0.000485222	0.00047957	0.001447224	0.00084847	0.00084847	0.000393931	0.000465913	0.000420054	0.000177337	0.000159882	0.00117438	0.000175233	0.0002819	1.52408E-08	3.31766E-07	2.64444E-08	3.73451E-07	0.373451E-07	0.373451E-07													
3573003803850	357300		3803850	0.00046952	0.00044019	0.001328386	0.000778799	0.000778799	0.00036997	0.000437573	0.000394504	0.000170975	0.00015417	0.001040973	0.000164574	0.00026517	1.40541E-08	3.07654E-07	2.47854E-08	3.46494E-07	0.346494E-07	0.346494E-07													
3573253803850	357325		3803850	0.000456283	0.00040774	0.001230472	0.000713394	0.000713394	0.000350077	0.000414045	0.000373291	0.00016556	0.0001493	0.000977594	0.000155725	0.00025128	1.30755E-08	2.87733E-07	2.34082E-08	3.24217E-07	0.324217E-07	0.324217E-07													
3573503803850	357350		3803850	0.000447377	0.00038227	0.001153602	0.000676328	0.000676328	0.00033591	0.000396675	0.000357631	0.000161866	0.000149394	0.000930308	0.000149192	0.00024108	1.23112E-08	2.72397E-07	2.23883E-08	3.07079E-07	0.307079E-07	0.307079E-07													
3570003803875	357000		3803875	0.000763788	0.00035804	0.010112012	0.005928415	0.005928415	0.001322008	0.001563574	0.001409675	0.000294827	0.000265808	0.004257059	0.000588071	0.00089659	9.94444E-08	1.85131E-06	9.11761E-06	2.04193E-06	2.04193E-06	2.04193E-06													
3570253803875	357025		3803875	0.000719174	0.000232134	0.00700523	0.004106988	0.004106988	0.001093094	0.001292832	0.001165581	0.000274912	0.000247853	0.003481792	0.000486243	0.00074887	6.94013E-08	1.3335E-06	7.5335E-06	1.47824E-06	1.47824E-06	1.47824E-06													
3570503803875	357050		3803875	0.000665817	0.00174067	0.005252898	0.00370964	0.00370964	0.000922924	0.001091567	0.000984126	0.000253908	0.000228186	0.002912325	0.000410546	0.00063714	5.23803E-06	1.03406E-06	6.35594E-06	1.14642E-06	1.14642E-06	1.14642E-06													
3570753803875	357075		3803875	0.000644743	0.00137124	0.00413898	0.002426034	0.002426034	0.000959687	0.00094108	0.000848451	0.000243906	0.000219898	0.001463307	0.00055341	4.15895E-08	8.34066E-07	5.45467E-08	9.30199E-07	9.30199E-07	9.30199E-07														
3571003803875	357100		3803875	0.0006377	0.00112873	0.003406227	0.001996984	0.001996984	0.000716168	0.000847031	0.000763659	0.000241121	0.000217388	0.001280519	0.000318574	0.00050195	3.45183E-08	7.06524E-07	4.8893E-08	7.89942E-07	0.789942E-07	0.789942E-07													
3571253803875	357125		3803875	0.000625067	0.0009657	0.002914247	0.001708549	0.001708549	0.000662157	0.00078315	0.000760666	0.000235128	0.000211985	0.001198577	0.000294548	0.00046752	2.97458E-08	6.20045E-07	4.51747E-08	6.94666E-07	0.694666E-07	0.694666E-07													
3571503803875	357150		3803875	0.000603993	0.00083718	0.002526407	0.001481168	0.001481168	0.000606369	0.000717169	0.000660579	0.000226055	0.000203805	0.001182945	0.000269732	0.00042957	2.59538E-08	5.48208E-07	4.12775E-08	6.15439E-07	0.615439E-07	0.615439E-07													
3571753803875	357175		3803875	0.000589934	0.00074229	0.002240054	0.001313287	0.001313287	0.000656284	0.000648841	0.000660221	0.000219658	0.000198061	0.001662834	0.000250393	0.0003994	2.3158E-08	4.94965E-07	3.81883E-08	5.59029E-07	0.559029E-07	0.559029E-07													
3572003803875	357200		3803875	0.000574752	0.00066453	0.00200539	0.001175709	0.001175709	0.000523298	0.000618918	0.000557999	0.000213019	0.000192052	0.001129899	0.000232779	0.00037235	2.08571E-08	4.4972E-07	3.52146E-08	5.05992E-07	0.505992E-07	0.505992E-07													
3572253803875	357225		3803875	0.000559104	0.00060006	0.001810847	0.001061653	0.001061653	0.000488461	0.000520852	0.00052026	0.00020626	0.000185959	0.001424222	0.000217283	0.00034837	1.89413E-08	4.12793E-07	3.29786E-08	4.63713E-07	0.463713E-07	0.463713E-07													
3572503803875	357250		3803875	0.000540141	0.00054004	0.001641767	0.000962526	0.000962526	0.000454221	0.000537219	0.000484342	0.000198405	0.000178876	0.001302553	0.000220252	0.0003246	1.72619E-08	3.7763E-07	3.05933E-08	4.25485E-07	0.425485E-07	0.425485E-07													
3572753803875	357275		3803875	0.000521423	0.00049638	0.001497948	0.000878209	0.000878209	0.00042352	0.000500675	0.000451605	0.000190762	0.000171985	0.001203277	0.000188395	0.00030319	1.58265E-08	3.48069E-07	2.84575E-08	3.92323E-07	0.392323E-07	0.392323E-07													
3573003803875	357300		3803875	0.000505776	0.00045695	0.001378949	0.000808443	0.000808443	0.000398216	0.000470981	0.000424623	0.000184326	0.000166183	0.001121693	0.000177139	0.00028555	1.46384E-08	3.2615E-07	2.66985E-08	3.64952E-07	0.364952E-07	0.364952E-07													
3573253803875	357325		3803875	0.000489991	0.00042246	0.001127489	0.000747436	0.000747436	0.000374892	0.000443395	0.000399752	0.000177937	0.000160423	0.001047244	0.000166764	0.00026923	1.35989E-08	3.01846E-07	2.50807E-08	3.4052E-07	0.34052E-07	0.34052E-07													
3573503803875	357350		3803875	0.000475713	0.000392922	0.001185732	0.000695164	0.000695164	0.000354701	0.000419514	0.000378222	0.000172202	0.000155252	0.000983193	0.000157782	0.00025951	1.26896E-08	2.83107E																	

Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading/Excavation		Drainage/Utilities/Sub-Grade		Drainage/Utilities/Sub-Grade		Foundations/Concrete Pour		Building Construction_Footprint		Building Construction_Footprint		Building Construction_Sensor		Building Construction_Sensor		Building Construction_Sensor		Building Construction_Sensor		Architectural Coatings		Paving		Child Risk		Total	per million
			2023	2023	2023	2023	2023	2023	2024	2024	2024	2024	2025	2025	2024	2025	2024	2025	2024	2025	2024	2025	2024	2025	2024	2025	2024	2025	2024	2025	3rd Trimester	O<c		
3570753803975	357075	357075	3803975	0.00085995	0.00132914	0.004011021	0.002351559	0.002351559	0.001022994	0.00130454	0.001176136	0.000332842	0.000300081	0.003485535	0.000490666	0.00077056	0.009397E-08	8.98575E-07	7.64542E-08	1.01597E-06	1.015969													
3571003803975	357100	357100	3803975	0.000810896	0.00111828	0.0033747	0.001978501	0.001978501	0.000940214	0.001121016	0.000102562	0.00031111	0.000280488	0.002921521	0.000418237	0.00060654	3.46793E-08	7.63411E-07	6.4902E-08	8.62993E-07	0.862993													
3571253803975	357125	357125	3803975	0.000760198	0.00095316	0.002876415	0.001686369	0.001686369	0.000980111	0.000956958	0.000862766	0.000289805	0.000260829	0.002470572	0.000359918	0.00057053	2.7744E-08	6.56029E-07	5.55781E-08	7.41351E-07	0.741351													
3571503803975	357150	357150	3803975	0.000734082	0.00083693	0.002525643	0.00148072	0.00148072	0.000725376	0.000857921	0.000773477	0.000277714	0.000249898	0.001195552	0.00032267	0.00051367	2.62954E-08	5.82869E-07	4.96011E-08	6.58766E-07	0.658766													
3571753803975	357175	357175	3803975	0.000721941	0.00074839	0.001324071	0.001324071	0.001324071	0.000663757	0.000770773	0.000270634	0.000243996	0.001278852	0.00029526	0.0004716	0.00029526	0.0004716	2.36893E-08	5.28034E-07	4.51886E-08	5.96892E-07	0.596892												
3572003803975	357200	357200	3803975	0.000711999	0.00067496	0.002036877	0.001194169	0.001194169	0.000614478	0.000727676	0.000655226	0.000268407	0.000238743	0.00178511	0.000273339	0.00040381	1.21564E-08	4.8219E-07	4.16366E-08	5.46082E-07	0.546082													
3572253803975	357225	357225	3803975	0.000696209	0.00061106	0.001844021	0.001081102	0.001081102	0.000569539	0.000673609	0.000567307	0.000257505	0.000232159	0.001629654	0.000253349	0.00040726	1.96286E-08	4.42853E-07	3.84131E-08	5.00913E-07	0.500913													
3572503803975	357250	357250	3803975	0.00067423	0.00055314	0.001669237	0.000978631	0.000978631	0.000525223	0.000621196	0.000560052	0.000247833	0.00022344	0.001481012	0.000233636	0.00037652	1.78862E-08	4.05269E-07	3.52973E-08	4.58452E-07	0.458452													
3572753803975	357275	357275	3803975	0.000644743	0.0005002	0.001509474	0.000884966	0.000884966	0.00048103	0.000568927	0.000512928	0.000212475	0.0001337841	0.000213977	0.00034559	1.62638E-08	3.69581E-07	3.22034E-08	4.18052E-07	0.418052														
3573003803975	357300	357300	3803975	0.000612242	0.00045105	0.001361157	0.000798012	0.000798012	0.00038586	0.000518727	0.00046767	0.000222571	0.000206663	0.001203213	0.000195097	0.00031574	1.47526E-08	3.35857E-07	2.92501E-08	3.7986E-07	0.37986													
3573253803975	357325	357325	3803975	0.000575218	0.00040478	0.001221516	0.000716143	0.000716143	0.000397023	0.000469569	0.000423351	0.000208031	0.000187555	0.001074983	0.000176608	0.00028637	1.33083E-08	3.0413E-07	2.63819E-08	3.43104E-07	0.343104													
3573503803975	357350	357350	3803975	0.00053814	0.00036391	0.001098179	0.000643834	0.000643834	0.000359108	0.000424726	0.000382921	0.000193675	0.000174612	0.000960382	0.00025945	0.00025945	1.20209E-08	2.74259E-07	2.37814E-08	3.10061E-07	0.310061													
357003804000	357000	357000	3804000	0.001023636	0.00269994	0.008147747	0.004776817	0.004776817	0.002313928	0.002736744	0.002467372	0.000412696	0.000372075	0.007925469	0.001029308	0.00157302	8.12224E-08	1.80090E-06	1.64436E-07	2.04875E-06	2.048753													
3570253804000	357025	357025	3804000	0.00093238	0.002024	0.006107939	0.003580929	0.003580929	0.001732741	0.002049358	0.001847644	0.0003283	0.00033614	0.005818951	0.000770778	0.00119802	6.13308E-08	1.36065E-06	1.22521E-07	1.5445E-06	1.544498													
3570503804000	357050	357050	3804000	0.000945808	0.00158755	0.004790839	0.002808747	0.002808747	0.001367165	0.001616982	0.001457825	0.000371529	0.00033496	0.004435052	0.000608158	0.00094903	4.14816E-08	1.08079E-06	9.56377E-08	1.22511E-06	1.225111													
3570753804000	357075	357075	3804000	0.00092583	0.00132657	0.00400327	0.002347015	0.002347015	0.00116586	0.001243171	0.001035963	0.000324237	0.000369505	0.000518611	0.00081615	4.10418E-08	9.15759E-07	8.10216E-08	1.03787E-06	1.037873														
3571003804000	357100	357100	3804000	0.00089226	0.00116459	0.00399348	0.001993028	0.001993028	0.001037799	0.001187129	0.001070364	0.000303991	0.000311278	0.000446521	0.00070644	3.51362E-08	7.86832E-07	6.9361E-08	8.90879E-07	0.890879														
3571253804000	357125	357125	3804000	0.000850879	0.00096249	0.002925974	0.001715424	0.001715424	0.000872561	0.001032001	0.000930423	0.000232421	0.000292308	0.002651464	0.000388143	0.00061666	3.04646E-08	6.38081E-07	5.99375E-08	7.73483E-07	0.773483													
3571503804000	357150	357150	3804000	0.000817089	0.00084778	0.002558375	0.00149991	0.00149991	0.000773583	0.000919437	0.000824882	0.000308704	0.000278319	0.002306158	0.000344114	0.00054877	2.68333E-08	6.03429E-07	5.28475E-08	6.8311E-07	0.68311													
3571753804000	357175	357175	3804000	0.000782368	0.00074996	0.002263187	0.001326849	0.001326849	0.000692641	0.000819205	0.000738572	0.000293269	0.000264403	0.002029159	0.000308108	0.00049291	2.38977E-08	4.70823E-07	4.09677E-08	6.09677E-07	0.609673													
3572003804000	357200	357200	3804000	0.000758883	0.00067182	0.002027398	0.001188612	0.001188612	0.000631198	0.000746535	0.000673055	0.000282325	0.000255436	0.001817392	0.000280777	0.00045006	2.1563E-08	4.89274E-07	4.24965E-08	5.52183E-07	0.552183													
3572253804000	357225	357225	3804000	0.000740659	0.00061187	0.001816309	0.001064856	0.001064856	0.000579004	0.000684804	0.000610714	0.000273354	0.000246448	0.001635051	0.000257559	0.0004147	1.9481E-08	4.42373E-07	3.89525E-08	5.01681E-07	0.501681													
3572503804000	357250	357250	3804000	0.00068923	0.00051541	0.001555379	0.000911879	0.000911879	0.000506564	0.000599127	0.000540156	0.000252462	0.000227612	0.001402346	0.00025336	0.00036407	1.68314E-08	3.84737E-07	3.38666E-08	4.35456E-07	0.435456													
3572753804000	357275	357275	3804000	0.000656116	0.0004712	0.001421962	0.00083366	0.00083366	0.0004645	0.000549376	0.000495302	0.000226624	0.000215327	0.001270111	0.000206624	0.00033439	1.5456E-08	3.57217E-07	3.09651E-08	3.99662E-07	0.399662													
3573003804000	357300	357300	3804000	0.000616133	0.00042411	0.00127987	0.000750355	0.000750355	0.000420225	0.000497011	0.000448091	0.000223004	0.000201054	0.001133851	0.000186929	0.00030306	1.39801E-08	3.19622E-07	2.79094E-08	3.61511E-07	0.361511													
3573253804000	357325	357325	3804000	0.000576561	0.00038171	0.001151915	0.000675339	0.000675339	0.000379869	0.000449281	0.000405059	0.000207523	0.000180799	0.001012115	0.000168978	0.00027442	1.26415E-08	2.89055E-07	2.51422E-08	3.2689E-07	0.32689													
3573503804000	357350	357350	3804000	0.000540278	0.00034551	0.001042676	0.000611294	0.000611294	0.000344991	0.000480031	0.00037869	0.000194326	0.000174388	0.000908456	0.000153463	0.00024946	1.14921E-08	2.67232E-07	2.27608E-08	2.96849E-07	0.296849													
357003804025	357000	357000	3804025	0.001095984	0.00264376	0.007978225	0.00467743	0.00467743	0.002394464	0.002831996	0.002553248	0.000446091	0.000402183	0.008263065	0.001056313	0.00163154	7.97837E-08	1.80121E-06	1.7124E-07	2.05223E-06	2.052235													
3570253804025	357025	357025	3804025	0.000995218	0.00198755	0.005997936	0.003516437	0.003516437	0.00179074	0.002118002	0.001909531	0.000400281	0.000361369	0.006403078	0.000796595	0.00123315	6.04399E-08	1.36162E-06	1.2719E-07	1.54931E-06	1.549311													
3570503804025	357050	357050	3804025	0.001004508	0.00156357	0.004718468	0.002766317	0.002766317	0.001408877	0.001666316	0.001520303	0.000396552	0.00035752	0.004572739	0.000626713	0.00097937	4.81144E-08	9.88261E-07	8.98362E-08	1.20232E-06	1.202325													
3570753804025	357075	357075	3804025	0.000990587	0.00131346	0.00396371	0.002323822	0.002323822	0.001201537	0.00142109	0.001281215	0.000385875	0.000347894	0.003798464	0.000534482	0.00084183	4.08345E-08	1.02912E-06	9.36269E-08	1.04637E-06	1.046372													
3571003804025	357100	357100	3804025	0.00097324	0.00111585	0.003763751	0.001974192	0.001974192	0.00135896	0.001225182	0.00110459	0.000374691	0.000337817	0.003186427	0.000460799	0.00073042	3.5044E-08	7.93603E-07	7.15205E-08	9.00168E-07	0.900168													
3571253804025	357125	357125	3804025	0.000930105	0.0009618	0.00302948	0.00170165	0.00170165	0.00091933	0.00106674	0.000953489	0.000319617	0.000319617	0.002713083	0.000401208	0.00063871	3.04508E-08	6.90764E-07	6.1856E-08	7.8307E-07	0.78307													
3571503804025	357150	357150	3804025	0.000886724	0.00080474	0.00253173	0.001487454	0.001487454	0.000795402	0.000940743	0.000848147	0.000313658	0.000301718	0.002344166	0.00035382	0.0005653	2.68155E-08	6.09096E-07	5.42189E-08	6.90311E-07	0.690311													
3571753804025	357175	357175	3804025	0.001314158	0.00074278	0.002214514	0.001314158	0.001314158	0.000793988	0.000839102	0.000756429	0.000316338	0.000285201	0.002051489	0.000315558	0.00050578	4.52741E-08	4.80878E-07	4.1666E-08	6.146														

Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading/Excavation		Drainage/Utilities Sub-Grade		Drainage/Utilities Sub-Grade		Foundations/Concrete Pour		Building Construction Footprint		Building Construction Footprint		Building Construction Senior		Building Construction Senior		Building Construction Apartment		Architectural Coatings		Paving		Child Risk		
			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023
3567253804390	356725		3804390	0.042764889	0.00574112	0.017325279	0.010157369	0.010157369	0.006577361	0.007779219	0.007013525	0.011953124	0.0107766	0.004639254	0.002925818	0.0054615	0.000925588	0.00222531	0.000627841	0.000135427	0.00023287	0.8549678	1.25301E-07	1.88727E-08	2.53924E-07	2.53924					
3567503804390	356750		3804430	0.03527957	0.00511733	0.015442276	0.009053667	0.009053667	0.005610745	0.006635977	0.00598281	0.009697606	0.000895616	0.004593759	0.002495837	0.00454929	2.4338E-07	5.10719E-06	3.30068E-07	5.63064E-06	5.63064										
3567503804415	356750		3804415	0.020676096	0.003828265	0.005906224	0.005807367	0.005807367	0.003752624	0.004048328	0.004001472	0.005793948	0.000252339	0.003853493	0.001669286	0.00293387	1.50879E-07	3.50927E-06	2.18865E-07	3.50602E-06	3.50602										
3568253804400	356825		3804400	0.00959395	0.00213525	0.00644365	0.003777748	0.003777748	0.002356332	0.002786896	0.002515287	0.00279976	0.002524185	0.003599336	0.001048711	0.00172976	8.77998E-08	1.91243E-07	1.41223E-07	2.14145E-06	2.14145										
3568253804425	356820		3804425	0.00558036	0.00207628	0.00626722	0.00367431	0.00367431	0.00023427	0.002077708	0.002049805	0.00182574	0.000164604	0.000497083	0.001042111	0.00017795	5.73336E-08	1.58437E-07	1.46022E-08	1.96025E-07	1.96025										
3562253804425	356225		3804425	0.000641263	0.00032025	0.007002528	0.000410543	0.000410543	0.000263832	0.000312041	0.000281238	0.000290045	0.000188469	0.000553008	0.000117361	0.00020101	8.4849E-09	1.95511E-07	1.64062E-08	2.20382E-07	2.20382										
356503804415	356500		3804415	0.00760198	0.00023653	0.008006258	0.000469384	0.000469384	0.000360466	0.000324634	0.000246625	0.000222351	0.000627841	0.000135427	0.00023287	0.8549678	1.25301E-07	1.88727E-08	2.53924E-07	2.53924											
356503804415	356550		3804415	0.011900085	0.00204234	0.006163282	0.003613375	0.003613375	0.00237556	0.002809638	0.002533091	0.003515627	0.003169991	0.002640554	0.001056724	0.00226851	9.12859E-08	1.98105E-06	1.40725E-07	2.21306E-06	2.21306										
3565753804415	356575		3804415	0.015846345	0.00253647	0.007654442	0.004487604	0.004487604	0.00292823	0.003463295	0.003212241	0.004665139	0.004205958	0.002910675	0.001302659	0.00286136	1.16234E-07	2.49955E-06	1.73651E-07	2.78943E-06	2.78943										
3566003804415	356600		3804415	0.020328252	0.00303168	0.009148856	0.005363741	0.005363741	0.00353864	0.004185244	0.003773298	0.005935044	0.003550869	0.003176318	0.001574099	0.00340974	1.42651E-07	3.04956E-06	2.09183E-07	3.40139E-06	3.40139										
3566253804415	356625		3804415	0.024511889	0.00343857	0.010376757	0.006083628	0.006083628	0.004110403	0.004861483	0.004382976	0.007062331	0.006367244	0.003425611	0.001828437	0.003078786	1.65701E-07	3.52995E-06	2.41119E-07	3.93677E-06	3.93677										
3566503804415	356650		3804415	0.027567589	0.00372959	0.011254971	0.006598503	0.006598503	0.004540649	0.005370346	0.004841753	0.00781311	0.00704408	0.003640544	0.002019824	0.00397825	1.82357E-07	3.87018E-06	2.63838E-07	4.31637E-06	4.31637										
3566753804415	356675		3804415	0.028867982	0.00389085	0.011741609	0.00688306	0.00688306	0.004749141	0.005616935	0.00506407	0.008048284	0.007256106	0.003803647	0.002112568	0.00399061	1.90533E-07	4.0251E-06	2.73587E-07	4.48922E-06	4.48922										
3567003804415	356700		3804415	0.028015075	0.00389162	0.011743939	0.006885172	0.006885172	0.004677298	0.005531964	0.004987463	0.007759219	0.006995493	0.003899467	0.002208061	0.00382183	1.88267E-07	3.96624E-06	2.6799E-07	4.4233E-06	4.42330										
3567253804415	356725		3804415	0.025140574	0.0036971	0.01156937	0.006541028	0.006541028	0.004327764	0.005118561	0.004641475	0.006986945	0.006301667	0.00391372	0.001925126	0.00346446	1.74902E-07	3.68502E-06	2.49947E-07	4.10987E-06	4.10987										
3568253804425	356825		3804425	0.007403352	0.00172187	0.00519619	0.003046394	0.003046394	0.001910193	0.002592326	0.002306863	0.002194283	0.001978304	0.003042904	0.000849714	0.00141273	6.99082E-08	1.53509E-06	1.15513E-07	1.72015E-06	1.72015										
3568503804425	356850		3804425	0.005704718	0.00147239	0.00444332	0.002605005	0.002605005	0.001616379	0.001911734	0.001723565	0.001726406	0.001565479	0.002790412	0.000719016	0.00118838	5.81001E-08	1.26858E-06	8.94917E-08	1.44317E-06	1.44317										
3568753804425	356875		3804425	0.004508407	0.00127186	0.003838165	0.002250218	0.002250218	0.001384631	0.001673769	0.001476449	0.001391195	0.001254262	0.002529006	0.000615927	0.00101415	4.90622E-08	1.09896E-06	5.81289E-08	1.22808E-06	1.22808										
3569003804425	356900		3804425	0.003618668	0.00110539	0.00335784	0.001955685	0.001955685	0.001197306	0.001416086	0.001276703	0.001137516	0.001025552	0.002056062	0.0005326	0.00087497	4.18366E-08	9.3827E-07	4.71475E-08	1.05473E-06	1.05473										
3569253804425	356925		3804425	0.002872227	0.00094455	0.00285043	0.001671135	0.001671135	0.001018512	0.001204621	0.001060523	0.000916653	0.000826441	0.002054065	0.000453066	0.00074346	3.51594E-08	7.92891E-07	6.35755E-08	8.91626E-07	8.91626										
3569503804425	356950		3804425	0.002101013	0.00072258	0.002186574	0.001278415	0.001278415	0.000768764	0.000909131	0.000819647	0.000669316	0.000630436	0.001599548	0.000341931	0.00056372	2.66387E-08	5.99441E-07	4.8372E-08	6.7445E-07	6.74451										
3569753804425	356975		3804425	0.01570053	0.00055124	0.001663494	0.000975264	0.000975264	0.000583045	0.000689583	0.000621709	0.004954764	0.00044885	0.002132606	0.000259357	0.00042904	2.0234E-08	4.54584E-07	3.68258E-08	5.11644E-07	5.11644										
3561503804450	356150		3804450	0.000432647	0.00016699	0.000503948	0.000295452	0.000295452	0.000186077	0.000247078	0.000198416	0.000142384	0.00012837	0.000440367	8.2772E-05	0.00014084	6.01716E-09	1.38642E-07	1.16353E-08	1.56294E-07	1.56294										
3561753804450	356175		3804450	0.000489881	0.00018442	0.000556519	0.000326273	0.000326273	0.000206905	0.000200172	0.000220626	0.000160372	0.000144587	0.000440131	9.2038E-05	0.00014698	6.47436E-09	1.53893E-07	1.29121E-08	1.7348E-07	1.73488										
3562003804450	356200		3804450	0.000559461	0.00020523	0.000619332	0.000363099	0.000363099	0.000231979	0.000274367	0.000247362	0.000182537	0.000164571	0.000489117	0.000103191	0.00017646	7.46601E-09	1.72257E-07	1.4445E-08	1.94169E-07	1.94169										
3562253804450	356225		3804450	0.00063074	0.00023215	0.000700579	0.000410732	0.000410732	0.000264466	0.000313004	0.000282195	0.000212967	0.000191332	0.000550417	0.000117723	0.00020199	8.49969E-09	1.96213E-07	1.64356E-08	2.21149E-07	2.21149										
3562503804450	356250		3804450	0.000772009	0.00026265	0.000798694	0.000468254	0.000468254	0.000304432	0.000360360	0.00032462	0.000224605	0.000250757	0.000622722	0.000135421	0.00023331	9.76375E-09	2.25458E-07	1.88475E-08	2.5407E-07	2.5407										
3563253804450	356325		3804450	0.001312534	0.00039578	0.001194366	0.000702026	0.000702026	0.000467022	0.000552359	0.000497992	0.000416882	0.000375849	0.000893547	0.000207746	0.00036405	1.50247E-08	3.46289E-07	2.8582E-08	3.89896E-07	3.89896										
3563503804450	356350		3804450	0.009783232	0.00169136	0.005104099	0.002992403	0.002992403	0.002029820	0.00232969	0.002154999	0.002285427	0.002577077	0.002326333	0.000898997	0.00115194	7.54055E-08	1.64502E-06	1.19039E-07	1.83946E-06	1.83946										
3563753804450	356375		3804450	0.011976762	0.0019606	0.005916609	0.003468757	0.003468757	0.002347748	0.002776744	0.002503434	0.003470991	0.003129275	0.002595978	0.001044352	0.00211053	8.91157E-08	1.93135E-06	1.3787E-07	2.15833E-06	2.15833										
3566003804450	356600		3804450	0.014129076	0.00220645	0.006658519	0.003903717	0.003903717	0.00264452	0.003151318	0.00284114	0.00452996	0.003654067	0.002743637	0.001185233	0.00235599	1.02035E-07	2.20066E-06	1.55731E-07	2.45813E-06	2.45813										
3566253804450	356625		3804450	0.015874928	0.00240073	0.007244794	0.004247438	0.004247438	0.002926113	0.003460793	0.003120154	0.004504619	0.004061237	0.002908368	0.001301628	0.00251668	1.12366E-07	2.41432E-06	1.7008E-07	2.69676E-06	2.69676										
3566503804450	356650		3804450	0.01687475	0.00252519	0.007620385	0.004467638	0.004467638	0.003088664	0.003653045	0.003292482	0.004743481	0.004276589	0.003038041	0.001373935	0.00257864	1.18656E-07	2.54275E-06	1.7868E-07	2.8401E-06	2.84009										
3566753804450	356675		3804450	0.016903497	0.00256554	0.007742155	0.004539028	0.004539028	0.003120748	0.003690991	0.003327694	0.004726866	0.00426161	0.003126856	0.001388207	0.0025383	1.19195E-07	2.56776E-06	1.80424E-07	2.86582E-06	2.86581										
3567003804450	356700		3804450	0.015925763	0.00251113	0.007577975	0.00442773	0.00442773	0.003102753	0.003653262	0.003212537	0.004579579	0.004026631	0.003165088	0.001340168	0.00239931	1.15711E-07	2.47066E-06	1.74244E-07	2.76702E-06	2.76701										
3567253804450	356725		3804450	0.01406752	0.00235386	0.007109409	0.004168065	0.004168065	0.00276584	0.003283939	0.002960707	0.003968974	0.003578315	0.003146883	0.001235112	0.00217046	1.06212E-07														

Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading/Excavation		Drainage/Utilities-Sub-Grade		Drainage/Utilities-Sub-Grade		Foundations/Concrete Pour		Building Construction_Footprint		Building Construction_Footprint		Building Construction_Sensor		Building Construction_Sensor		Building Construction_Apartment		Architectural Coatings		Paving		Child Risk			Total	per million																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
			2023	2023	2023	2023	2023	2023	2024	2024	2024	2024	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025			2025	2025	2025	2025	2025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
			3rd Trimester	0-2	2-16	16-24	24-32	32-40	40-48	48-56	56-64	64-72	72-80	80-88	88-96	96-104	104-112	112-120	120-128	128-136	136-144	144-152	152-160	160-168	168-176	176-184	184-192	192-200	200-208	208-216	216-224			224-232	232-240	240-248	248-256	256-264	264-272	272-280	280-288	288-296	296-304	304-312	312-320	320-328	328-336	336-344	344-352	352-360	360-368	368-376	376-384	384-392	392-400	400-408	408-416	416-424	424-432	432-440	440-448	448-456	456-464	464-472	472-480	480-488	488-496	496-504	504-512	512-520	520-528	528-536	536-544	544-552	552-560	560-568	568-576	576-584	584-592	592-600	600-608	608-616	616-624	624-632	632-640	640-648	648-656	656-664	664-672	672-680	680-688	688-696	696-704	704-712	712-720	720-728	728-736	736-744	744-752	752-760	760-768	768-776	776-784	784-792	792-800	800-808	808-816	816-824	824-832	832-840	840-848	848-856	856-864	864-872	872-880	880-888	888-896	896-904	904-912	912-920	920-928	928-936	936-944	944-952	952-960	960-968	968-976	976-984	984-992	992-1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
37532538004475	375325	3804475	0.000451076	0.000201129	0.000607444	0.000356129	0.000356129	0.000208614	0.000246733	0.000222448	0.00015059	0.000153768	0.000483998	9.27981E-05	0.00015307	7.06076E-09	1.60417E-07	1.33657E-08	1.80844E-07	1.018044	0.180844	0.357308004475	375308	3804475	0.000424659	0.00018772	0.00056648	0.000321113	0.000332113	0.000194565	0.000230118	0.000207468	0.000141425	0.000127505	0.000449349	8.65488E-05	0.00014294	6.59333E-09	1.49757E-07	1.24528E-08	1.68798E-07	0.168798	3753500038004500	375350	3804475	0.000233869	9.5728E-05	0.00028882	0.000169364	0.000104185	0.000123222	0.000111094	7.73465E-05	6.97334E-05	0.000229962	4.63448E-05	7.8331E-05	3.4098E-09	7.84751E-08	6.4891E-09	8.26238E-08	0.082324	37536002538004500	375360	3804500	0.000255162	0.00010323	0.000311334	0.000182644	0.000182644	0.000112728	0.000133326	0.000120203	8.24226E-05	7.59345E-05	0.000247054	5.0145E-05	8.4852E-05	3.68509E-09	8.6185E-08	7.07885E-09	9.53824E-08	0.095382	3753602538004500	375360	3804500	0.000280183	0.00011195	0.000315784	0.000198067	0.000122709	0.000145131	0.000130846	9.23013E-05	8.21633E-05	0.000267626	5.45846E-05	9.2485E-05	4.00557E-09	9.46012E-08	7.69729E-09	1.03715E-07	0.103715	3753607538004500	375360	3804500	0.000311204	0.00012127	0.000370729	0.000217092	0.000217092	0.000135062	0.000159742	0.000144018	0.000102134	9.23466E-05	0.000293157	6.00799E-05	0.00010194	4.40135E-09	1.11015E-07	8.46391E-09	1.14015E-07	0.114015	3753610038004500	375361	3804500	0.000348831	0.00013545	0.00048765	0.000239648	0.000149829	0.000177207	0.000159765	0.000114429	0.000103166	0.000323295	6.66489E-05	0.00011325	8.12786E-09	1.02457E-07	9.3773E-09	1.26297E-07	0.126297	3753612538004500	375361	3804500	0.000390951	0.00014908	0.00044989	0.000263759	0.000263759	0.000165858	0.000196165	0.000176856	0.000127937	0.000115344	0.000355384	7.37788E-05	0.0001256	5.38196E-09	1.28333E-07	1.03656E-08	1.39581E-07	0.139581	3753615038004500	375361	3804500	0.000439347	0.00016415	0.000495353	0.000290413	0.000290413	0.000183771	0.000217351	0.000199598	0.000143408	0.000129292	0.000390513	8.17472E-05	0.00013947	5.94967E-09	1.36987E-07	1.14658E-08	1.54402E-07	0.154402	3753617538004500	375361	3804500	0.000503337	0.00018356	0.000553949	0.000324766	0.000324766	0.000269887	0.000244809	0.000220713	0.000163793	0.00014671	0.000435464	9.20742E-05	0.00015749	6.6857E-09	1.54035E-07	1.28888E-08	1.7361E-07	0.17361	3753620038004500	375362	3804500	0.000587413	0.00020798	0.000627646	0.000367973	0.000367973	0.000236413	0.000279612	0.00025209	0.000190439	0.000171694	0.000491069	0.000105164	0.00018046	7.62107E-09	1.75679E-07	1.46885E-08	1.97985E-07	0.197985	3753622538004500	375362	3804500	0.000659377	0.00022724	0.00068576	0.000402043	0.000402043	0.000260103	0.000307631	0.000277351	0.000213037	0.000192068	0.000533556	0.000115702	0.00019918	8.37385E-09	1.93091E-07	1.61188E-08	2.17584E-07	0.217584	3753625038004500	375362	3804500	0.0007437	0.00024876	0.000750701	0.000440117	0.000440117	0.000286763	0.000339162	0.000305779	0.000239351	0.000215792	0.000579851	0.000127561	0.000220044	9.22555E-09	1.22749E-07	1.17724E-07	1.77242E-07	0.236999	3753630038004500	375363	3804500	0.001147669	0.00034878	0.001048017	0.000614426	0.000614426	0.000407559	0.000482031	0.000434586	0.000363987	0.00032816	0.00078217	0.000181295	0.00031723	1.31729E-08	3.30708E-07	2.49757E-08	3.41226E-07	0.341226	3753632538004500	375363	3804500	0.001381894	0.00039843	0.001202358	0.000704912	0.000704912	0.000470832	0.000556866	0.000502055	0.000318497	0.000392158	0.000878767	0.000209441	0.00036907	1.52678E-08	3.51028E-07	2.87307E-08	3.95046E-07	0.395046	3753635038004500	375363	3804500	0.001696216	0.00017004	0.003530889	0.00207007	0.00207007	0.001414775	0.001570723	0.001582923	0.00141775	0.00141775	0.001873292	0.000520589	0.000184961	0.000629349	0.000878767	0.000293317	0.000629337	1.11828E-07	8.35147E-08	1.25242E-06	1.25242E-06	1.25242E-06	3753637538004500	375363	3804500	0.00192393	0.000130467	0.003937164	0.002308259	0.002308259	0.001579074	0.001867612	0.001683787	0.00209502	0.00188879	0.002004997	0.000702422	0.00013396	5.72158E-08	1.25726E-06	9.29266E-07	1.4074E-06	1.40740E-06	3753640038004500	375364	3804500	0.001813981	0.00042917	0.004312875	0.002528529	0.002528529	0.001733297	0.002050616	0.001848237	0.00252766	0.00212187	0.002125618	0.000771025	0.0014612	6.33658E-08	1.38676E-06	1.01694E-07	1.55167E-06	1.55166E-06	3753642538004500	375364	3804500	0.00191739	0.000153263	0.004625092	0.002711573	0.002711573	0.00186284	0.00220323	0.00198637	0.002562148	0.002309149	0.00223476	0.00082865	0.000155069	6.84691E-08	1.49356E-06	1.08975E-07	1.67101E-06	1.67100E-06	3753645038004500	375364	3804500	0.0019414095	0.00160475	0.004842728	0.002839168	0.002839168	0.00195124	0.002307784	0.002080633	0.00269424	0.002424709	0.002319883	0.000867973	0.000159759	7.18978E-08	1.56515E-06	1.1389E-07	1.75093E-06	1.75093E-06	3753647538004500	375364	3804500	0.0019529468	0.00163775	0.004942328	0.002897561	0.002897561	0.001984613	0.002374254	0.002116218	0.002715452	0.002448175	0.002382046	0.000882818	0.000159677	7.31666E-08	1.59146E-06	1.15757E-07	1.78403E-06	1.78403E-06	3753650038004500	375365	3804500	0.0019230266	0.00162676	0.004911685	0.002879596	0.002879596	0.001957085	0.002361696	0.002208685	0.002637574	0.002374519	0.002414456	0.000807053	0.000154889	7.20688E-08	1.56851E-06	1.14321E-07	1.75498E-06	1.75498E-06	3753652538004500	375365	3804500	0.0019556584	0.00157446	0.00475132	0.002785578	0.002785578	0.001871763	0.002321783	0.001995885	0.002455412	0.00221373	0.002419312	0.000832619	0.000145979	6.8717E-08	1.49873E-06	1.09775E-07	1.67722E-06	1.67722E-06	3753655038004500	375365	3804500	0.002760779	0.00148502	0.004884134	0.00262735	0.00262735	0.001742016	0.002060329	0.001857534	0.002270634	0.001990341	0.002390221	0.0008774904	0.000134113	6.36072E-08	1.39221E-06	1.02771E-07	1.55863E-06	1.55862E-06	3753657538004500	375365	3804500	0.00265693	0.00137133	0.004138333	0.002426199	0.002426199	0.001586722	0.001876658	0.001691942	0.001926332	0.001736727	0.002315436	0.000705824	0.000120794	5.74819E-08	1.26399E-06	9.43926E-08	1.41586E-06	1.41586E-06	3753660038004500	375366	3804500	0.002545581	0.0012482	0.003766758	0.002208354	0.002208354	0.001425393	0.00165885	0.001519915	0.001648405	0.001486155	0.00222387	0.00063406	0.00010753	5.11567E-08	1.13065E-06	8.55432E-08	1.26735E-06	1.26734E-06	3753662538004500	375366	3804500	0.0024642798	0.00112715	0.003401448	0.001994182	0.001994182	0.001127173	0.001504088	0.001356004	0.001399041	0.001216336	0.002110805	0.000565698	0.0006995286	4.52164E-08	1.04022E-06	7.69938E-08	1.12643E-06	1.12643E-06	3753665038004500	375366	3804500	0.003867308	0.0010101	0.003048226	0.001787097	0.001787097	0.001127199	0.001331168	0.001201947	0.001180785	0.001064563	0.001976552	0.000501414	0.0008403	3.97339E-08	8.86287E-07	6.18223E-08	9.98443E-07	9.98443E-07	3753667538004500	375366	3804500	0.003286911	0.00091144	0.002750508	0.001612553	0.001612553	0.001088342	0.001192592	0.001075208	0.001013526	0.000913758	0.001846651	0.000448542	0.00074908	5.33094E-08	7.90031E-07	6.19827E-08	8.87323E-07	8.87323E-07	3753670038004500	375367	3804500	0.002812467	0.00082242	0.002481867	0.001455056	0.001455056	0.00090356	0.001068664	0.000963478	0.000875697	0.000789287	0.001710534	0.000401932	0.000669339	3.14541E-08	7.05646E-07	5.58054E-08	7.92951E-07	7.92951E-07	3753672538004500	375367	3804500	0.002425289	0.00074255	0.002240817	0.001313734	0.001313734	0.000811362	0.000959962	0.000865166	0.000760907	0.000686012	0.001579239	0.00036092	0.00059971	2.80889E-08	6.31726E-07	5.03702E-08	7.10191E-07	7.10191E-07	3753675038004500	375367	3804500	0.002104877	0.00067189	0.002027599	0.00118873	0.00118873	0.000731044</

Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading/Excavation		Drainage/Utilities-Sub-Grade		Drainage/Utilities-Sub-Grade		Foundations/Concrete Pour		Building Construction_Footprint		Building Construction_Footprint		Building Construction_Sensor		Building Construction_Sensor		Building Construction_Apartment		Architectural Coatings		Paving		Child Risk			Total		per million				
			2023	2023	2023	2023	2023	2023	2024	2024	2024	2024	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025			
			3rd Trimester	Q=2	2-16	5.19282E-7	5.19282E-7	5.19282E-7																														
3569503804525	356950	3804525	0.001656459	0.00054964	0.001658675	0.000972439	0.000972439	0.000596836	0.000750894	0.000636414	0.000528038	0.000476064	0.001214218	0.000265492	0.00044065	2.04194E-08	4.61545E-07	3.73177E-08	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7		
3569753804525	356975	3804525	0.001473041	0.00054004	0.001521081	0.000891771	0.000891771	0.000548222	0.000654558	0.000582017	0.000472783	0.000426247	0.001212732	0.000242799	0.000402449	1.86021E-08	4.21219E-07	3.42093E-08	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	
3570003804525	357000	3804525	0.001321276	0.00046522	0.00140393	0.000823088	0.000823088	0.000526005	0.000594444	0.000553934	0.000472881	0.000388481	0.001052075	0.000223574	0.00037025	1.70666E-08	3.87094E-07	3.21709E-08	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	
3570253804525	357025	3804525	0.001187734	0.00042944	0.001297461	0.000760668	0.000760668	0.000463483	0.000548173	0.000494218	0.000386059	0.00034806	0.000982905	0.000206172	0.00034114	1.56829E-08	3.52666E-07	2.91788E-08	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	
3570503804525	357050	3804525	0.001069484	0.00039942	0.001199306	0.000703123	0.000703123	0.000427453	0.000455059	0.000455798	0.000349631	0.000315218	0.000917542	0.000190144	0.00031439	1.44203E-08	3.80267E-07	2.69677E-08	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7
3570753804525	357075	3804525	0.000967183	0.0003684	0.001111754	0.000651793	0.000651793	0.000395369	0.000467613	0.000421587	0.000317831	0.000286548	0.000858386	0.00015872	0.00029062	1.33026E-08	3.02947E-07	2.49957E-08	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	
3571003804525	357100	3804525	0.000878804	0.00034368	0.001034121	0.000666179	0.000666179	0.000366959	0.000443013	0.000391294	0.000291584	0.000265177	0.000895341	0.000163235	0.00036959	1.23178E-08	3.00097E-07	2.32471E-08	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7
3571253804525	357125	3804525	0.000801633	0.00031955	0.000964321	0.000565357	0.000565357	0.000341452	0.000403845	0.000364095	0.000265729	0.000239574	0.000756967	0.000151889	0.00025074	1.14385E-08	2.6096E-07	2.16737E-08	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	
3571503804525	357150	3804525	0.000733396	0.00029864	0.000909127	0.000528366	0.000528366	0.000318427	0.000376611	0.000339542	0.000243979	0.000219965	0.00071272	0.000141646	0.00023373	1.06477E-08	2.43083E-07	2.20495E-08	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	
3571753804525	357175	3804525	0.000668338	0.00027875	0.000841185	0.000493165	0.000493165	0.000296364	0.000350517	0.000316016	0.000223078	0.000202112	0.000670872	0.000131832	0.00021745	9.8949E-09	2.26006E-07	1.88913E-08	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	
3572003804525	357200	3804525	0.000594538	0.00025385	0.000766043	0.000449111	0.000449111	0.000268321	0.00031735	0.000286114	0.000197317	0.000177895	0.000617379	0.000119357	0.00019697	8.97317E-09	2.04595E-07	1.71727E-08	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	
3572253804525	357225	3804525	0.000537592	0.00022545	0.000680338	0.000398865	0.000398865	0.000236318	0.00027995	0.000251989	0.000177328	0.000159874	0.000536367	0.000105122	0.00017391	7.99493E-09	1.81561E-07	1.50804E-08	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	
3572503804525	357250	3804525	0.000505255	0.00021582	0.000651301	0.000381841	0.000381841	0.000225768	0.000267022	0.000240739	0.000162797	0.00015083	0.000515928	0.000100429	0.00016594	7.62851E-09	1.73411E-07	1.44207E-08	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	
3572753804525	357275	3804525	0.000486072	0.00021629	0.000652707	0.000382665	0.000382665	0.000227666	0.000262764	0.000162476	0.000163452	0.000147364	0.000515928	0.000101273	0.00016699	7.59059E-09	1.73415E-07	1.4595E-08	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	
3573003804525	357300	3804525	0.000461216	0.00020677	0.000623991	0.00036583	0.00036583	0.000217388	0.00025711	0.000231803	0.000155477	0.000140173	0.000506682	9.76009E-05	0.00015936	7.24733E-09	1.6561E-07	1.39384E-08	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7
3573253804525	357325	3804525	0.000430578	0.00019551	0.000590014	0.00034591	0.00034591	0.000205034	0.000242499	0.000145316	0.00012863	0.000131013	0.000480287	9.12056E-05	0.00015028	6.83789E-09	1.56223E-07	1.31599E-08	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7
3573503804525	357350	3804525	0.000400296	0.00018388	0.000554913	0.000325331	0.000325331	0.00019226	0.000227391	0.000125009	0.00013517	0.000121836	0.000452388	8.55234E-05	0.00014095	6.41857E-09	1.4657E-07	1.23516E-08	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7
3573753804525	357375	3804550	0.000246831	9.859E-05	0.000297517	0.000174427	0.000174427	0.00010767	0.000127344	0.000114841	8.1145E-05	7.31581E-05	0.00023496	4.7895E-05	8.1106E-05	3.52747E-09	8.06919E-08	6.57562E-09	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	5.19282E-7	
3574003804525	357400	3804550	0.000271331	0.00010723	0.000323582	0.000189708	0.000189708	0.000117515	0.000138988	0.000125308	9.5059E-05	8.82903E-05	0.000255346	5.22743E-05	8.8186E-05	3.84515E-09	8.82217E-08	7.36925E-09	5.19282E-7	5.19282E-7	5.19282E-7	5.1928																

Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading/Excavation		Drainage/Utilities-Sub-Grade		Drainage/Utilities-Sub-Grade		Foundations/Concrete Pour		Building Construction_Footprint		Building Construction_Footprint		Building Construction_Sensor		Building Construction_Sensor		Building Construction_Apartment		Architectural Coatings		Paving		Child Risk					
			2023	2023	2023	2023	2023	2023	2024	2024	2024	2024	2024	2025	2025	2024	2024	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	3rd Trimester	O<2	2-16	Total	per million		
356253804575	356253	3804575	0.004200601	0.00085801	0.002589259	0.001518017	0.001518017	0.001033225	0.001222023	0.001101741	0.001240595	0.00118486	0.001495793	0.000459611	0.00083925	3.62074E-08	8.05327E-07	6.13256E-08	9.0286E-07	0.90286														
356053804575	356053	3804575	0.004538195	0.00091071	0.002748299	0.001611258	0.001611258	0.001096485	0.001296841	0.001169196	0.001334492	0.00120314	0.001561732	0.000487751	0.00088724	3.86449E-08	8.57365E-07	6.49717E-08	9.60982E-07	0.960882														
356053804575	356053	3804575	0.004797825	0.0009533	0.002786817	0.001686604	0.001686604	0.001146712	0.001356247	0.001406131	0.001222754	0.001618393	0.000510094	0.000922204	0.00059292	4.05792E-08	8.98585E-07	6.87175E-08	1.007004E-07	1.007036														
356003804575	356000	3804575	0.004953345	0.0009289	0.002966297	0.001739064	0.001739064	0.001180058	0.001395685	0.001258311	0.001448672	0.001306082	0.001663599	0.000524927	0.00094096	4.18582E-08	9.25827E-07	6.98127E-08	1.03756E-07	1.037498														
356253804575	356253	3804575	0.001763646	0.00099684	0.003008825	0.001763646	0.001763646	0.001192411	0.001410296	0.001271483	0.001458476	0.001312541	0.001694761	0.000530422	0.00094175	4.23304E-08	9.59518E-07	1.048887E-08	1.048876E-08	1.048876														
356053804575	356053	3804575	0.004867624	0.00099394	0.002999947	0.001758513	0.001758513	0.001182417	0.001398476	0.001260827	0.001426249	0.001285866	0.001710342	0.000525976	0.00092458	4.19478E-08	9.27986E-07	7.01121E-08	1.04005E-07	1.040046														
356053804575	356053	3804575	0.00463	0.00097459	0.0029241075	0.001724277	0.001724277	0.001150862	0.001361155	0.001227719	0.001362751	0.001228618	0.001709222	0.00051194	0.00089124	4.07479E-08	8.68505E-07	6.84750E-08	1.011878E-07	1.011878														
3567003804575	356700	3804575	0.004293748	0.00094077	0.002839025	0.001664448	0.001664448	0.001101054	0.001302246	0.001174068	0.001272497	0.001147747	0.001691242	0.000489784	0.00084513	3.8863E-08	8.6274E-07	6.57738E-08	9.63777E-07	0.967377														
3567253804575	356725	3804575	0.003896741	0.00089565	0.002702836	0.001584604	0.001584604	0.001037903	0.001227556	0.00110673	0.00116501	0.00105034	0.001657105	0.000461692	0.00079044	3.64862E-08	8.12117E-07	6.23391E-08	9.10942E-07	0.910942														
356753804575	356750	3804575	0.003478632	0.00084301	0.002543997	0.001491481	0.001491481	0.000969601	0.001143579	0.001031019	0.001050378	0.000946991	0.001608219	0.000430108	0.00073152	3.38347E-08	7.55269E-07	5.84328E-08	8.47537E-07	0.847537														
356753804575	356775	3804575	0.003073759	0.00078674	0.002374194	0.001391929	0.001391929	0.000893268	0.001056491	0.000952503	0.000937581	0.000845296	0.001546687	0.000397354	0.0006722	3.11311E-08	6.96459E-07	5.43308E-08	7.81903E-07	0.781903														
3568003804575	356800	3804575	0.002703964	0.00072984	0.002202463	0.001291248	0.001291248	0.000820828	0.000970815	0.000875259	0.000832639	0.000750684	0.001475620	0.00036513	0.0006151	2.8467E-08	6.38798E-07	5.02374E-08	7.17502E-07	0.717502														
3568253804575	356825	3804575	0.00238136	0.00067481	0.002036395	0.001193886	0.001193886	0.000752537	0.000890064	0.00080244	0.000739305	0.000666536	0.001397925	0.000334752	0.00056213	2.60021E-08	5.84646E-07	4.63194E-08	6.56968E-07	0.656968														
3568503804575	356850	3804575	0.002105754	0.00062289	0.001789724	0.001102034	0.001102034	0.00068959	0.000815596	0.000753318	0.0006581	0.000593378	0.001316886	0.000306751	0.00051386	2.37538E-08	5.46219E-07	4.26518E-08	6.01325E-07	0.601325														
3568753804575	356875	3804575	0.001854017	0.00057089	0.001722813	0.001010041	0.001010041	0.000627957	0.000742702	0.000669599	0.000583164	0.000525764	0.001228711	0.000279335	0.00046695	2.15671E-08	4.83638E-07	3.90603E-08	5.46942E-07	0.546942														
3569003804575	356900	3804575	0.001664269	0.00052849	0.001594858	0.000935025	0.000935025	0.000578597	0.000684322	0.000616966	0.000525908	0.000474144	0.001152343	0.000257378	0.0004296	1.98257E-08	4.47559E-07	3.60496E-08	5.03434E-07	0.503434														
3569253804575	356925	3804575	0.001499552	0.00048963	0.001477586	0.000866271	0.000866271	0.000534051	0.000631637	0.000569466	0.000476148	0.000429281	0.001079398	0.000237563	0.00039599	1.82554E-08	4.12551E-07	3.33546E-08	4.64161E-07	0.464161														
3569503804575	356950	3804575	0.001353421	0.00045388	0.001368186	0.000802132	0.000802132	0.000492963	0.000563604	0.000525653	0.000431698	0.000389207	0.001009364	0.000219286	0.00036508	1.68086E-08	3.80291E-07	3.08525E-08	4.27952E-07	0.427952														
3569753804575	356975	3804575	0.001225141	0.00042049	0.001268946	0.000743951	0.000743951	0.000455997	0.00053932	0.000486236	0.000392707	0.000354054	0.000944545	0.000202842	0.00033734	1.55086E-08	3.51294E-07	2.85913E-08	3.95393E-07	0.395393														
3570003804575	357000	3804575	0.001113194	0.00039098	0.001179868	0.000691726	0.000691726	0.000432018	0.000500531	0.00045107	0.000398775	0.000323281	0.000858513	0.000188172	0.00031264	1.43503E-08	3.2544E-07	2.65685E-08	3.66359E-07	0.366359														
3570253804575	357025	3804575	0.001014401	0.00036428	0.001099304	0.000644494	0.000644494	0.000393321	0.000465191	0.000419403	0.000328333	0.000296016	0.000831832	0.000174602	0.00029045	1.33094E-08	3.0218E-07	2.47444E-08	3.40234E-07	0.340234														
3570503804575	357050	3804575	0.000926762	0.00034007	0.00102625	0.000601664	0.000601664	0.000366458	0.00043419	0.000390758	0.000303173	0.00027171	0.000782626	0.000163012	0.00027039	1.23706E-08	2.81172E-07	2.30952E-08	3.16655E-07	0.316655														
3570753804575	357075	3804575	0.000849564	0.00031832	0.000960626	0.00056319	0.00056319	0.000324261	0.000404919	0.000365064	0.000277494	0.000250181	0.000738123	0.000152293	0.00025244	1.15135E-08	2.6239E-07	2.16101E-08	2.955E-07	0.2955														
3571003804575	357100	3804575	0.00078108	0.00029867	0.00091307	0.000528413	0.000528413	0.000320583	0.000379162	0.000341841	0.000256187	0.000230971	0.000697523	0.000142605	0.00023624	1.07764E-08	2.45395E-07	2.02691E-08	2.7644E-07	0.27644														
3571253804575	357125	3804575	0.000720736	0.00028111	0.000848334	0.000497356	0.000497356	0.000303137	0.000356163	0.000321106	0.000237295	0.000213938	0.000661178	0.000133955	0.00022177	1.01043E-08	2.30266E-07	1.90724E-08	2.59443E-07	0.259443														
3571503804575	357150	3804575	0.000659487	0.00026389	0.000795762	0.000466535	0.000466535	0.000281773	0.00033326	0.000300458	0.000217942	0.00019649	0.000626145	0.000125341	0.00020739	9.43656E-09	2.15484E-07	1.78887E-08	2.4247E-07	0.24247														
3571753804575	357175	3804575	0.000586618	0.00024352	0.000734877	0.00043084	0.00043084	0.000258937	0.000306251	0.000276108	0.00019494	0.000175302	0.000586825	0.000115183	0.00019054	8.65175E-09	1.97384E-07	1.65103E-08	2.22546E-07	0.222546														
3572003804575	357200	3804575	0.000539702	0.00021687	0.000684635	0.000401384	0.000401384	0.000240318	0.000284231	0.000256255	0.000178333	0.000160768	0.000549169	0.000106901	0.00017679	8.04198E-09	1.83264E-07	1.53939E-08	2.0666E-07	0.20666														
3572253804575	357225	3804575	0.000509064																															





Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading/Excavation		Drainage/Utilities Sub-Grade		Drainage/Utilities Sub-Grade		Foundations/Concrete Pour		Building Construction Footprint		Building Construction Footprint		Building Construction Sensor		Building Construction Senior		Building Construction Apartment		Architectural Coatings		Paving		Child Risk		Total	per million
			2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024		
3569253804650	356925	3804650	0.001109056	0.00037298	0.001125569	0.000659893	0.000659893	0.00040661	0.00048909	0.000433574	0.000353909	0.000319075	0.000343999	0.000180873	0.00030214	1.38163E-08	3.12915E-07	2.54549E-08	3.52186E-07	0.352186												
3569503804650	356950	3804650	0.001019389	0.00034959	0.0010514965	0.000618499	0.000618499	0.000379664	0.000449331	0.00040516	0.000326223	0.000294204	0.000747755	0.000016902	0.000282028	1.28957E-08	2.92228E-07	2.38247E-08	3.28949E-07	0.328949												
3569753804650	356975	3804650	0.000941259	0.00032852	0.0009913865	0.000581226	0.000581226	0.000356219	0.000421331	0.000379841	0.000306225	0.00007275	0.000088545	0.0000158458	0.00026423	1.20738E-08	2.73771E-07	2.23264E-08	3.0821E-07	0.30821												
3570003804650	357000	3804650	0.000870912	0.00030912	0.000932834	0.000546897	0.000546897	0.000334482	0.000395601	0.000356663	0.000280564	0.000252949	0.000070437	0.0000148788	0.00024793	1.13211E-08	2.56874E-07	2.10247E-08	2.8922E-07	0.28922												
3570253804650	357025	3804650	0.000806676	0.00029107	0.000873874	0.000514969	0.000514969	0.000314345	0.000371784	0.00033519	0.000260741	0.000235077	0.000067377	0.000023284	0.00023284	1.06242E-08	2.41229E-07	1.97821E-08	2.71635E-07	0.271635												
3570503804650	357050	3804650	0.000748304	0.00027439	0.000828052	0.000485466	0.000485466	0.000295833	0.000349892	0.000315452	0.000242689	0.000218801	0.000063194	0.0000131597	0.00021897	9.98292E-08	2.26833E-07	1.86389E-08	2.55454E-07	0.255454												
3570753804650	357075	3804650	0.000695606	0.00025914	0.000782027	0.000458482	0.000458482	0.000278925	0.000329892	0.000297421	0.000224631	0.000204063	0.000059904	0.0000124075	0.00020363	9.39825E-09	2.13695E-07	1.75935E-08	2.40687E-07	0.240687												
3571003804650	357100	3804650	0.000647648	0.00024508	0.000739576	0.000433595	0.000433595	0.000263358	0.00031148	0.000280822	0.000211405	0.000190597	0.0000570317	0.000011715	0.00019469	8.86073E-09	2.01606E-07	1.66308E-08	2.27097E-07	0.227097												
3571253804650	357125	3804650	0.000604596	0.00023231	0.000701061	0.000411014	0.000411014	0.000249241	0.000294784	0.000265769	0.000197953	0.000178469	0.0000543378	0.000011087	0.00018414	8.37427E-09	1.90653E-07	1.57581E-08	2.14786E-07	0.214786												
3571503804650	357150	3804650	0.000564147	0.00022007	0.000664112	0.000389352	0.000389352	0.000235708	0.000278778	0.000251338	0.000185257	0.000167023	0.0000517271	0.000010485	0.00017405	7.90989E-09	1.80179E-07	1.49205E-08	2.0301E-07	0.20301												
3571753804650	357175	3804650	0.000526137	0.00020829	0.000628569	0.000368514	0.000368514	0.000222703	0.000263397	0.000237471	0.000173253	0.0001562	0.0000491869	9.90655E-05	0.00016437	7.46559E-09	1.70138E-07	1.41142E-08	1.91718E-07	0.191718												
3572003804650	357200	3804650	0.000493307	0.00019807	0.000597725	0.000350431	0.000350431	0.000211407	0.000250037	0.000225426	0.000162862	0.000146832	0.0000469793	9.40407E-05	0.00015596	7.08043E-09	1.61425E-07	1.34142E-08	1.8192E-07	0.18192												
3572253804650	357225	3804650	0.000463134	0.00018851	0.000568889	0.000333525	0.000333525	0.000200857	0.000237559	0.000214177	0.000153264	0.000138178	0.0000448965	9.3477E-05	0.00014811	6.71271E-09	1.533E-07	1.27591E-08	1.7281E-07	0.17281												
3572503804650	357250	3804650	0.000435483	0.0001796	0.000541981	0.00031775	0.00031775	0.000191013	0.000225916	0.000144431	0.000130215	0.000120215	0.0000429321	8.49684E-05	0.0001408	6.38841E-09	1.45736E-07	1.21468E-08	1.64271E-07	0.164271												
3572753804650	357275	3804650	0.000411313	0.0001718	0.000518446	0.000303952	0.000303952	0.000182361	0.000215683	0.000194544	0.000136696	0.000123241	0.0000412045	8.11199E-05	0.00013437	6.09689E-09	1.3309E-07	1.16089E-08	1.56815E-07	0.156815												
3573003804650	357300	3804650	0.000389334	0.0001646	0.000494766	0.000291214	0.000291214	0.000174401	0.000212629	0.000185966	0.000129266	0.000116865	0.0000396016	7.75791E-05	0.00012845	5.82866E-09	1.31097E-07	1.11128E-08	1.49949E-07	0.149949												
3573253804650	357325	3804650	0.000369987	0.00015838	0.000477963	0.000280218	0.000280218	0.000167444	0.000198041	0.000178548	0.000124	0.000112524	0.0000382163	7.44846E-05	0.00012329	5.59611E-09	1.27004E-07	1.06070E-08	1.43981E-07	0.143981												
3573503804650	357350	3804650	0.000341486	0.00014999	0.00045621	0.00026536	0.00026536	0.00015993	0.000186862	0.00016847	0.00011471	0.00010293	0.0000364886	7.02802E-05	0.00011635	5.27557E-09	1.20404E-07	1.01039E-08	1.3784E-07	0.13784												
3573753804650	357375	3804650	0.000274921	0.00010602	0.00031927	0.000187565	0.000187565	0.000116783	0.000138122	0.000124527	8.98746E-05	8.10301E-05	0.000251853	5.19486E-05	8.8238E-05	3.81894E-09	8.76317E-08	7.31633E-09	9.87669E-08	0.098767												
3574003804650	357400	3804650	0.00029742	0.00011287	0.000340611	0.000196961	0.000196961	0.000124932	0.000147761	0.000133217	9.70496E-05	8.74972E-05	0.000267626	5.55739E-05	9.4548E-05	4.07851E-09	9.78539E-08	8.181593E-09	1.0553E-07	0.10553												
3574253804650	357425	3804650	0.000321454	0.00011979	0.000361495	0.000211935	0.000211935	0.00013286	0.00015764	0.000142124	0.000104675	9.43716E-05	0.000283367	5.92897E-05	0.00010105	4.34413E-09	9.87834E-08	8.32621E-09	1.12545E-07	0.112545												
3574503804650	357450	3804650	0.000352612	0.00012895	0.000389126	0.000228135	0.000228135	0.000141188	0.00017053	0.00015375	0.000104545	0.000103274	0.000304098	6.41395E-05	0.00010953	4.69385E-09	1.07951E-07	8.99364E-09	1.21539E-07	0.121539												
3574753804650	357475	3804650	0.000200841	0.000084638	0.000467787	0.000806526	0.000806526	0.000576834	0.000682237	0.000615086	0.000510225	0.00050162	0.000966377	0.000256594	0.00045592	1.95251E-09	4.40719E-07	3.477E-08	4.95014E-07	0.495014												
3575003804650	357500	3804650	0.002162179	0.00051401	0.011551162	0.000909407	0.000909407	0.000609908	0.000721335	0.000650353	0.000654499	0.000509907	0.000650353	0.00048222	0.000721307	2.07405E-08	4.67246E-07	3.67079E-08	5.24695E-07	0.524695												
3575253804650	357525	3804650	0.002306135	0.00053995	0.01629437	0.000955297	0.000955297	0.000640691	0.000757762	0.000695796	0.0006731	0.000104385	0.000284999	0.00050625	2.18806E-08	4.9205E-07	3.85127E-08	5.52443E-07	0.552443													
3575503804650	357550	3804650	0.002433757	0.00056333	0.01700001	0.000966667	0.000966667	0.00066811	0.000790191	0.000712944	0.000732298	0.000660219	0.00079046	0.000297196	0.00052704	2.29026E-08	5.14227E-07	4.01234E-08	5.77235E-07	0.577235												
3575753804650	357575	3804650	0.002533564	0.00058267	0.01758356	0.001030879	0.001030879	0.000690213	0.000816334	0.000735983	0.00076088	0.000685971	0.001109312	0.000307029	0.00054301	2.37324E-08	5.32196E-07	4.14322E-08	5.9736E-07	0.59736												
3576003804650	357600	3804650	0.00260424	0.00059778	0.0180402	0.001057651	0.001057651	0.00076096	0.000836077	0.000753783	0.000781812	0.000704292	0.001134459	0.000314454	0.000554	2.43619E-08	5.45818E-07	4.24301E-08	6.1261E-07	0.61261												
3576253804650	357625	3804650	0.002635864	0.00060738	0.01832936	0.001074604	0.001074604	0.000716426	0.000847336	0.000769394	0.000790568	0.000712754	0.00115311	0.000318689	0.00059901	2.47252E-08	5.53689E-07	4.20208E-08	6.21435E-07	0.621435												
3576503804650	357650	3804650	0.002624937	0.00061084	0.01843378	0.001080726	0.001080726	0.000718067	0.000849276	0.000765864	0.00078806	0.000710493	0.00116145	0.000319419	0.00055737	2.47961E-08	5.55247E-07	4.31649E-08	6.23208E-07	0.623208												
3576753804650	357675	3804650	0.002570697	0.00060804	0.01834904	0.001075757	0.001075757	0.00071168	0.000841722	0.000758873	0.00078603	0.000697549	0.001168308	0.000316578	0.00054934	2.45693E-08	5.50385E-07	4.28651E-08	6.1781E-07	0.61781												
3577003804650	357700	3804650	0.002477522	0.0005992	0.01808237	0.001060123	0.001060123	0.000697672	0.00082515	0.000749396	0.000784257	0.000674608	0.001164276	0.000310346																		



Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading/Excavation		Drainage/Utilities-Sub-Grade		Drainage/Utilities-Sub-Grade		Foundations/Concrete Pour		Building Construction_Footprint		Building Construction_Footprint		Building Construction_Sensor		Building Construction_Sensor		Building Construction_Sensor		Building Construction_Sensor		Architectural Coatings		Paving		Child Risk			Total	per million			
			2023	2023	2023	2023	2023	2023	2024	2024	2024	2024	2025	2025	2024	2025	2024	2025	2024	2025	2024	2025	2024	2025	2024	2025	2024	2025	2024	2025	3rd Trimester	O-2	2-16					
3564753804750	356475		3804750	0.001714638	0.00042937	0.001295734	0.000759656	0.000759656	0.000503472	0.00059547	0.000536859	0.000522524	0.000471093	0.00086261	0.00022396	0.00039227	1.70798E-08	3.85351E-07	3.04727E-08	4.32904E-07	0.432904																	
3565003804750	356500		3804750	0.00176487	0.00044034	0.001328827	0.000779058	0.000779058	0.000515718	0.000609933	0.000549916	0.000534721	0.000484343	0.00088139	0.000229407	0.000401043	1.75333E-08	3.92532E-07	3.12087E-08	4.43995E-07	0.443995																	
3565253804750	356525		3804750	0.001797674	0.00044856	0.00135647	0.000793609	0.000793609	0.000524478	0.000620313	0.000559257	0.000536939	0.000493105	0.000896549	0.000233304	0.000406468	1.78063E-08	4.02389E-07	3.17444E-08	4.51993E-07	0.451993																	
3565503804750	356550		3804750	0.001810828	0.00045371	0.00136919	0.000802721	0.000802721	0.000529305	0.000626203	0.000564405	0.000551079	0.000496837	0.000907368	0.000235452	0.000409928	1.80453E-08	4.06419E-07	3.20542E-08	4.56519E-07	0.456519																	
3565753804750	356575		3804750	0.001803072	0.00045588	0.001374812	0.000806017	0.000806017	0.000529956	0.000626793	0.000565099	0.000551029	0.000495224	0.000913863	0.000235741	0.00040835	1.80787E-08	4.07141E-07	3.21256E-08	4.57345E-07	0.457345																	
3566003804750	356600		3804750	0.001774873	0.00045416	0.001370555	0.000805232	0.000805232	0.000526498	0.000626703	0.000561412	0.000551477	0.00048884	0.000915899	0.000234203	0.000400415	1.79629E-08	4.04956E-07	3.19613E-08	4.54519E-07	0.454519																	
3566253804750	356625		3804750	0.001726943	0.00044194	0.001356177	0.000795092	0.000795092	0.000518877	0.00061369	0.000553285	0.000553836	0.000476513	0.000912579	0.000230813	0.00039671	1.76949E-08	3.98761E-07	3.1557E-08	4.48013E-07	0.448013																	
3566503804750	356650		3804750	0.001661912	0.00044157	0.001332562	0.000781247	0.000781247	0.000507473	0.000606201	0.000541125	0.000510446	0.000462024	0.000905385	0.00022574	0.00038645	1.7293E-08	3.89961E-07	3.0934E-08	4.38188E-07	0.438188																	
3566753804750	356675		3804750	0.001583234	0.00043099	0.001306334	0.000762528	0.000762528	0.000492787	0.000582832	0.000525465	0.000488374	0.000440304	0.000893195	0.000219207	0.00037382	1.67745E-08	3.78583E-07	3.0119E-08	4.25476E-07	0.425476																	
3567003804750	356700		3804750	0.001495266	0.00041819	0.001261998	0.000739878	0.000739878	0.000475511	0.000562399	0.000507043	0.00046384	0.00041786	0.000876783	0.000211522	0.0003594	1.61663E-08	3.65196E-07	2.91492E-08	4.10512E-07	0.410512																	
3567253804750	356725		3804750	0.001401872	0.00040358	0.001217901	0.000714024	0.000714024	0.000456241	0.000539609	0.000486496	0.000436806	0.000393812	0.000856435	0.000202951	0.00034371	1.54911E-08	3.50278E-07	2.80569E-08	3.93826E-07	0.393826																	
3567503804750	356750		3804750	0.001306888	0.00038764	0.001169787	0.000685817	0.000685817	0.000435616	0.000515214	0.000464503	0.000409395	0.000369099	0.00082632	0.000193776	0.00032723	1.47729E-08	3.34342E-07	2.68773E-08	3.75992E-07	0.375992																	
3567753804750	356775		3804750	0.001214919	0.00037111	0.001119907	0.000656573	0.000656573	0.000414624	0.000490387	0.000442119	0.000382528	0.000344877	0.00080633	0.000184438	0.0003107	1.40457E-08	3.1814E-07	2.56615E-08	3.57851E-07	0.357851																	
3568003804750	356800		3804750	0.001126211	0.00035395	0.001068138	0.000626222	0.000626222	0.000393212	0.000465063	0.000419287	0.000356297	0.000321228	0.00077315	0.00029406	0.00029406	1.33901E-08	3.13091E-07	2.44616E-08	3.3938E-07	0.33938																	
3568253804750	356825		3804750	0.001043943	0.00033686	0.001016571	0.00059599	0.00059599	0.000372262	0.000440284	0.000396947	0.000331643	0.000299	0.000748889	0.000165594	0.00027794	1.25918E-08	3.05393E-07	2.31851E-08	3.13121E-07	0.313121																	
3568503804750	356850		3804750	0.000969239	0.00032025	0.00956649	0.00056604	0.00056604	0.000352206	0.000415663	0.000375561	0.000308999	0.000278585	0.000715889	0.000156672	0.00026263	1.19086E-08	2.7014E-07	2.19884E-08	3.04037E-07	0.304037																	
3568753804750	356875		3804750	0.000901248	0.00030411	0.000917733	0.000538043	0.000538043	0.00033018	0.000393869	0.000355101	0.000288152	0.00025979	0.000684502	0.000148137	0.00024807	1.1257E-08	2.51531E-07	2.08355E-08	2.87507E-07	0.287507																	
3569003804750	356900		3804750	0.00083989	0.00028866	0.000871103	0.000510707	0.000510707	0.000314928	0.000372474	0.000335812	0.000269196	0.0002427	0.000653468	0.00014009	0.0002344	1.06433E-08	2.45315E-07	1.97393E-08	2.71914E-07	0.271914																	
3569253804750	356925		3804750	0.000784451	0.00027398	0.000826807	0.000484736	0.000484736	0.000297964	0.00035241	0.000317723	0.000251962	0.000227163	0.000623202	0.000132544	0.00022162	1.00679E-08	2.28507E-07	1.77035E-08	2.57279E-07	0.257279																	
3569503804750	356950		3804750	0.000734082	0.00026009	0.000784878	0.000460154	0.000460154	0.000282098	0.000333645	0.000300805	0.000231664	0.000213007	0.000593992	0.000125486	0.00020969	9.52893E-09	2.16314E-07	1.77285E-08	2.43571E-07	0.243571																	
3569753804750	356975		3804750	0.000688124	0.000247	0.00074454	0.000437009	0.000437009	0.00026729	0.000316131	0.000285015	0.000221907	0.000200065	0.000566125	0.000118899	0.00019857	9.20254E-09	2.04926E-07	1.68148E-08	2.30766E-07	0.230766																	
3570003804750	357000		3804750	0.000645154	0.00023447	0.000707567	0.000414829	0.000414829	0.000253228	0.000299499	0.00027002	0.000220282	0.000187962	0.000539817	0.00012644	0.00018801	8.54574E-09	1.94926E-07	1.58148E-08	2.18581E-07	0.218581																	
3570253804750	357025		3804750	0.000606569	0.00022302	0.00673028	0.000394579	0.000394579	0.000240454	0.000284391	0.000256399	0.000196432	0.000177097	0.000514456	0.000106961	0.00017844	8.10957E-09	1.84246E-07	1.51507E-08	2.07506E-07	0.207506																	
3570503804750	357050		3804750	0.000572094	0.00021267	0.00641738	0.000376261	0.000376261	0.000228968	0.000270807	0.000244152	0.000186564	0.000167378	0.000495124	0.000101852	0.00016983	7.71613E-09	1.75373E-07	1.44374E-08	1.97526E-07	0.197526																	
3570753804750	357075		3804750	0.000539538	0.00020281	0.00612023	0.000358813	0.000358813	0.000218052	0.000257896	0.000232512	0.000175475	0.000158203	0.000470817	9.69964E-09	0.00016166	7.34216E-09	1.6694E-07	1.37592E-08	1.88041E-07	0.188041																	
3571003804750	357100		3804750	0.000509091	0.00019352	0.0058399	0.000342378	0.000342378	0.000207773	0.000245739	0.000212551	0.000166591	0.000149616	0.000450725	9.24241E-09	0.00015397	6.99049E-09	1.59007E-07	1.31211E-08	1.7108E-07	0.17108																	
3571253804750	357125		3804750	0.000481057	0.00018489	0.00557965	0.000327121	0.000327121	0.000198267	0.000234496	0.000211415	0.000175155	0.000141686	0.000432105	8.81956E-09	0.00014686	6.66462E-09	1.51657E-07	1.25306E-08	1.70852E-07	0.170852																	
3571503804750	357150		3804750	0.000455105	0.00017687	0.00533748	0.000312923	0.000312923	0.000189412	0.000224023	0.000201973	0.000148995	0.000134433	0.000414764	8.42566E-09	0.00014022	6.36174E-09	1.44482E-07	1.19111E-08	1.63162E-07	0.163162																	
3571753804750	357175		3804750	0.000428742	0.00016852	0.005058567	0.00029816	0.00029816	0.000180232	0.000231165	0.0002192184	0.000140679	0.000126832	0.000396166	8.01729E-09	0.00013337	6.04896E-09	1.37877E-07	1.11804E-08	1.552E-07	0.1552																	
3572003804750	357200		3804750	0.000404927	0.00016095	0.00485715	0.000284762	0.000284762	0.00017892	0.000203302	0.000183291	0.000131317																										

Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading/Excavation		Drainage/Utilities/Sub-Grade		Drainage/Utilities/Sub-Grade		Foundations/Concrete Pour		Building Construction_Footprint		Building Construction_Footprint		Building Construction_Sensor		Building Construction_Sensor		Building Construction_Sensor		Architectural Coatings		Paving		Child Risk				
			2023	2023	2023	2023	2023	2024	2024	2024	2024	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	2025	3rd Trimester	0<2	2<16	Total	per million	
356207.943803837.03	356207.9	3803837.03	0.000278675	0.00013867	0.000418484	0.000245347	0.000245347	0.000142846	0.000168947	0.000152318	9.40623E-05	8.48039E-05	0.000337052	6.35423E-05	0.0001061	4.77827E-09	1.08882E-07	9.1094E-09	1.2277E-07	0.12277													
356211.123803948.24	356211.1	3803948.24	0.0003613	0.00017197	0.000518968	0.000304258	0.000304258	0.000181439	0.000214593	0.000193471	0.000121741	0.000109758	0.000422698	8.07097E-05	0.00013506	5.96775E-09	1.36762E-07	1.1531E-08	1.54261E-07	0.154261													
356211.123803983.19	356211.1	3803983.19	0.000390129	0.00018189	0.000548889	0.0003218	0.0003218	0.000193535	0.000228899	0.000206369	0.000131081	0.000118179	0.000448325	8.60904E-05	0.00014424	6.33327E-09	1.45364E-07	1.22834E-08	1.63981E-07	0.163981													
356230.183804011.79	356230.2	3804011.79	0.000436251	0.00019985	0.000603107	0.000353586	0.000353586	0.000214486	0.000253678	0.000228709	0.000146349	0.000131944	0.000494268	9.541E-05	0.00016005	6.97921E-09	1.60486E-07	1.35943E-08	1.8106E-07	0.18106													
356350.938804011.79	356350.9	3804011.79	0.00054247	0.00025444	0.00076785	0.000450171	0.000450171	0.00027384	0.000323878	0.000291999	0.000183063	0.000165044	0.000634944	0.000212813	0.00020425	8.8509E-09	2.04016E-07	1.73562E-08	2.30223E-07	0.230223													
356446.253804024.5	356446.3	3804024.5	0.00057763	0.00026994	0.000814598	0.000477578	0.000477578	0.000293597	0.000347245	0.000313067	0.000194394	0.00017526	0.000678647	0.000130601	0.00021893	9.39548E-09	2.1717E-07	1.85544E-08	2.45121E-07	0.245121													
356471.673804024.5	356471.7	3804024.5	0.000649703	0.00030422	0.000918054	0.000538232	0.000538232	0.000333302	0.000394205	0.000355405	0.000218873	0.00019733	0.000771268	0.000148263	0.00024823	1.05853E-08	2.45273E-07	2.10503E-08	2.76908E-07	0.276908													
356544.763804021.32	356544.8	3804021.32	0.001239035	0.00061186	0.00184643	0.001082515	0.001082515	0.000692478	0.000819012	0.000738398	0.000429292	0.000387037	0.0001635573	0.000308036	0.00051271	2.1108E-08	4.96746E-07	4.38167E-08	5.61671E-07	0.561671													
356595.63804021.32	356595.6	3804021.32	0.001814418	0.00094888	0.002863483	0.001678787	0.001678787	0.00113272	0.001316697	0.001187097	0.000642108	0.000578906	0.002691903	0.000495219	0.00081672	3.24475E-08	7.75863E-07	7.05878E-08	8.78898E-07	0.878898													
356614.663804037.21	356614.7	3804037.21	0.002396597	0.00127584	0.003850174	0.002257259	0.002257259	0.001559167	0.001844068	0.00166256	0.000865812	0.000780592	0.003793345	0.000693567	0.00113574	4.35127E-08	1.05781E-06	9.86848E-08	1.20001E-06	1.200007													
356563.823804126.18	356563.8	3804126.18	0.002732602	0.00110147	0.003323976	0.001948762	0.001948762	0.001374311	0.001625434	0.001465446	0.000951586	0.000857923	0.0002984388	0.000611337	0.00102711	3.93459E-08	9.49907E-07	8.49013E-08	1.07415E-06	1.074154													
356525.693804157.96	356525.7	3804157.96	0.001966704	0.00076106	0.002296682	0.001346486	0.001346486	0.000925758	0.001094919	0.000987148	0.000667251	0.000601574	0.001986606	0.000411807	0.00069824	2.73968E-08	6.52333E-07	5.72564E-08	7.36986E-07	0.736986													
356500.273804196.09	356500.3	3804196.09	0.001913896	0.0006934	0.0020925	0.00122678	0.00122678	0.00084247	0.000996412	0.000898337	0.00064031	0.000577285	0.001755805	0.000374757	0.00064129	2.52885E-08	5.98906E-07	5.18888E-08	6.76038E-07	0.676038													
356500.273804243.75	356500.3	3804243.75	0.003070526	0.00092865	0.002802437	0.001642998	0.001642998	0.001154672	0.001365662	0.001231242	0.000998884	0.000900566	0.002184614	0.000513635	0.00089953	3.52291E-08	8.2905E-07	6.99142E-08	9.34194E-07	0.934194													
356478.033804256.46	356478.0	3804256.46	0.002990422	0.00088031	0.00256567	0.001557479	0.001557479	0.001087046	0.001285679	0.001159132	0.000963088	0.000868289	0.002032037	0.000483553	0.00085078	3.36093E-08	7.86574E-07	6.58163E-08	8.86E-07	0.886													
356401.773804218.33	356401.8	3804218.33	0.001333936	0.00048444	0.001461923	0.000857088	0.000857088	0.000568427	0.000672294	0.000606121	0.00043984	0.000396547	0.001192367	0.000252854	0.00043321	1.76592E-08	4.12703E-07	3.5218E-08	4.6558E-07	0.46558													
356306.443804221.51	356306.4	3804221.51	0.000962278	0.00035511	0.001071632	0.000628271	0.000628271	0.000408292	0.000482897	0.000435367	0.000315748	0.000284669	0.000865393	0.000181621	0.00031026	1.2903E-08	2.9962E-07	2.54079E-08	3.37931E-07	0.337931													
356239.723804215.15	356239.7	3804215.15	0.000704457	0.00027301	0.000823875	0.000483017	0.000483017	0.000308053	0.000364342	0.000328481	0.000232104	0.000209258	0.000667097	0.000137032	0.00023293	9.82507E-09	2.27438E-07	1.92692E-08	2.56532E-07	0.256532													
356201.593804167.49	356201.6	3804167.49	0.000552692	0.0002272	0.000685639	0.000401973	0.000401973	0.000251723	0.000297719	0.000268415	0.00018321	0.000165177	0.000558351	0.000111974	0.00018937	8.0865E-09	1.86742E-07	1.5829E-08	2.10658E-07	0.210658													
356246.073804154.78	356246.1	3804154.78	0.000639482	0.00026046	0.000786003	0.000460813	0.000460813	0.000290587	0.000343685	0.000309857	0.000219177	0.000191112	0.000642174	0.000129262	0.00021878	9.28599E-09	2.14827E-07	1.82488E-08	2.42362E-07	0.242362													
356246.073804113.47	356246.1	3804113.47	0.000587961	0.00024768	0.000747448	0.00043821	0.00043821	0.000273799	0.000323829	0.000291955	0.00019563	0.000176374	0.000612996	0.000121794	0.00020556	7.87643E-09	2.0283E-07	1.72412E-08	2.28847E-07	0.228847													
356195.233804100.76	356195.2	3804100.76	0.000473904	0.00020508	0.00061889	0.00036284	0.00036284	0.00022372	0.0002646	0.000238556	0.000157865	0.000142326	0.000506042	9.95179E-05	0.00016763	7.23224E-09	1.66652E-07	1.41275E-08	1.88011E-07	0.188011													
356214.33804030.85	356214.3	3804030.85	0.000436525	0.00019736	0.00095597	0.000349183	0.000349183	0.000212519	0.000251352	0.000226612	0.000146128	0.000131745	0.000487869	9.45353E-05	0.00015872	6.90761E-09	1.58886E-07	1.34607E-08	1.79254E-07	0.179254													
356198.413804024.5	356198.4	3804024.5	0.00041282	0.00018748	0.00065757	0.000331689	0.000331689	0.000201251	0.000238024	0.000214596	0.00013818	0.000124579	0.00046269	8.95226E-05	0.00015024	6.55661E-09	1.50691E-07	1.27531E-08	1.7E-07	0.17													
356179.343804103.94	356179.3	3804103.94	0.000453241	0.00019647	0.000592906	0.000347606	0.000347606	0.000213943	0.000253036	0.00022813	0.000150977	0.000136117	0.000484254	9.51687E-05	0.00016029	6.92654E-09	1.59528E-07	1.35145E-08	1.7997E-07	0.17997													
356172.993804167.49	356172.9	3804167.49	0.00050246	0.0002085	0.000629212	0.000368891	0.000368891	0.000229917	0.000271929	0.000245164	0.000166642	0.00015024	0.000511928	0.000102275	0.0001728	7.40826E-09	1.70904E-07	1.44734E-08	1.92786E-07	0.192786													
356192.053804205.62	356192.1	3804205.62	0.000578315	0.00023101	0.000697125	0.000408707	0.000408707	0.000257689	0.000304776	0.000274777	0.000191029	0.000172226	0.000565262	0.000114628	0.00019429	8.26587E-09	1.90974E-07	1.61696E-08	2.15409E-07	0.215409													
356236.543804234.22	356236.5	3804234.22	0.000723531	0.00027595	0.000832751	0.000488221	0.000488221	0.000423551	0.000369426	0.000333064	0.000237848	0.000214437	0.000672056	0.000138944	0.00023653	9.96172E-09	2.30592E-07	1.9516E-08	2.6007E-07	0.26007													
356315.983804256.46	356315.9	3804256.46	0.001086392	0.00038359	0.001157578	0.000678659	0.000678659	0.00045203	0.000526554	0.000474726	0.00035376	0.00031949	0.000924677	0.00019804	0.00033992	1.40638E-08	3.26571E-07	2.75977E-08	3.68233E-07	0.368233													
356341.43804250.1	356341.4	3804250.1	0.001230649	0.00042717	0.001289108	0.000755771	0.000755771	0.000499404	0.000590659	0.000532521	0.000400977	0.00036151	0.00102856	0.00022151	0.00038203	1.57176E-08	3.65443E-07	3.08928E-08	4.12053E-07	0.412053													
356385.883804250.1	356385.9	3804250.1	0.001608008	0.00053185	0.001604979	0.000940958	0.000940958	0.000632093	0.000747593	0.000674009	0.000521685	0.000470337	0.001269951	0.000281175	0.0004863	1.97723E-08	4.60671E-07	3.88833E-08	5.19327E-07	0.519327													
356436.723804278.7	356436.7	3804278.7	0.002568203	0.00074893	0.002260095	0.001325036	0.001325036	0.000912117	0.001078784	0.000972602	0.0008221	0.000741182	0.001703623	0.000405738	0.00071656	2.86579E-08	6.66688E-07	5.54047E-08	7.50751E-07	0.750751													















# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.0950329

RESIDENTIAL RECEPTORS ONLY MAX: 7.0400

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3571003803400	357100	3803400	0.339607345
3571253803400	357125	3803400	0.347517077
3571503803400	357150	3803400	0.334556103
3571753803400	357175	3803400	0.312425019
3572003803400	357200	3803400	0.292169844
3572253803400	357225	3803400	0.276241533
3572503803400	357250	3803400	0.261120705
3572753803400	357275	3803400	0.246730436
3573003803400	357300	3803400	0.230486874
3573253803400	357325	3803400	0.217995042
3573503803400	357350	3803400	0.197530048
3571753803425	357175	3803425	0.345704418
3572003803425	357200	3803425	0.321550328
3572253803425	357225	3803425	0.300485793
3572503803425	357250	3803425	0.281348346
3572753803425	357275	3803425	0.262898096
3573003803425	357300	3803425	0.24404825
3573253803425	357325	3803425	0.233015931
3571003803450	357100	3803450	0.543478509
3571253803450	357125	3803450	0.479460841
3571503803450	357150	3803450	0.42821642
3571753803450	357175	3803450	0.387353281
3572003803450	357200	3803450	0.346214326
3572503803450	357250	3803450	0.293537323
3572753803450	357275	3803450	0.277572725
3573003803450	357300	3803450	0.247574274
3571503803475	357150	3803475	0.498334788
3571003803500	357100	3803500	0.991116749
3571253803500	357125	3803500	0.723043681
3571503803500	357150	3803500	0.58034114
3571753803500	357175	3803500	0.494777853
3571503803525	357150	3803525	0.629989702
3571503803550	357150	3803550	0.891328251
3572003803550	357200	3803550	0.587446703
3573503803550	357350	3803550	0.266125814
3572503803575	357250	3803575	0.466973119
3572753803575	357275	3803575	0.409264959
3573003803575	357300	3803575	0.366700497
3573253803575	357325	3803575	0.328659219
3573503803575	357350	3803575	0.30036934
3572503803600	357250	3803600	0.535143637
3572753803600	357275	3803600	0.447830489
3573003803600	357300	3803600	0.39285892
3573253803600	357325	3803600	0.351372275
3573503803600	357350	3803600	0.317733243
3572253803625	357225	3803625	0.911203342
3572503803625	357250	3803625	0.590764115
3572753803625	357275	3803625	0.473965565
3573003803625	357300	3803625	0.409652833
3573253803625	357325	3803625	0.363921664

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.002872992	0.00219458	0.002016777
0.002922381	0.002239257	0.002087196
0.002804556	0.002152884	0.00202846
0.002619102	0.002010971	0.001904779
0.00245317	0.001882524	0.001786701
0.002325602	0.001782553	0.001689729
0.002205924	0.001687999	0.001595396
0.002091515	0.001597666	0.001505818
0.001959138	0.001494511	0.001407228
0.001855626	0.001414617	0.001334009
0.001683097	0.001282177	0.001213725
0.002880677	0.002217631	0.002115104
0.002689313	0.002067235	0.001966765
0.002523551	0.001936328	0.001835181
0.002373119	0.001817229	0.001715135
0.002226223	0.00170167	0.00160089
0.002072413	0.001582078	0.00148758
0.001981284	0.001511852	0.001424195
0.004438925	0.00344179	0.003336071
0.003933158	0.003045777	0.002944715
0.003526185	0.002727577	0.002633603
0.003207501	0.002475723	0.002377889
0.002893292	0.00222329	0.002107377
0.002475662	0.001895388	0.001782754
0.002348309	0.001795982	0.001686848
0.002101291	0.001604664	0.001507672
0.004059992	0.00315454	0.00309263
0.007666672	0.00608927	0.006467353
0.005737348	0.004506622	0.004593459
0.004694038	0.003657042	0.003615448
0.004052156	0.003140371	0.00304783
0.005087026	0.003963098	0.003916295
0.006984169	0.005516569	0.005734826
0.004751008	0.003704429	0.003669992
0.002254529	0.001725475	0.001635215
0.003855167	0.002984341	0.002874345
0.00341196	0.002631784	0.002506294
0.003077276	0.002367851	0.002243499
0.002771291	0.002127961	0.002013914
0.002540686	0.001947785	0.001846215
0.004356177	0.003396252	0.003351925
0.003708681	0.002871714	0.002765238
0.003286817	0.002534579	0.002412763
0.002957532	0.002274805	0.002158141
0.002684814	0.002060916	0.001956455
0.00699186	0.005593973	0.006082426
0.00475821	0.003729269	0.003750202
0.003914675	0.00303732	0.002937885
0.003423875	0.002643744	0.002521936
0.003061658	0.002357436	0.002240059

# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.0950329

RESIDENTIAL RECEPTORS ONLY MAX: 7.0400

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3573503803625	357350	3803625	0.32753916
3572503803650	357250	3803650	0.611478899
3572753803650	357275	3803650	0.488959924
3573003803650	357300	3803650	0.423528186
3573253803650	357325	3803650	0.378169085
3573503803650	357350	3803650	0.343173008
3572003803675	357200	3803675	1.241833029
3572253803675	357225	3803675	0.763517214
3573253803675	357325	3803675	0.383947327
3573503803675	357350	3803675	0.351856468
3571753803700	357175	3803700	1.356961254
3572003803700	357200	3803700	0.897194873
3572253803700	357225	3803700	0.658406155
3572503803700	357250	3803700	0.53752896
3572753803700	357275	3803700	0.461215357
3573003803700	357300	3803700	0.413376524
3573253803700	357325	3803700	0.377419076
3573503803700	357350	3803700	0.349410862
3571503803725	357150	3803725	1.399449203
3571753803725	357175	3803725	0.985562339
3572003803725	357200	3803725	0.748826784
3572253803725	357225	3803725	0.608710897
3572503803725	357250	3803725	0.514739543
3572753803725	357275	3803725	0.452858759
3573003803725	357300	3803725	0.411216436
3573253803725	357325	3803725	0.37789962
3573503803725	357350	3803725	0.348897254
3571003803750	357100	3803750	1.982346578
3571253803750	357125	3803750	1.385499611
3571503803750	357150	3803750	1.045909589
3571753803750	357175	3803750	0.830667377
3572003803750	357200	3803750	0.675903414
3572253803750	357225	3803750	0.577564711
3572503803750	357250	3803750	0.507941591
3572753803750	357275	3803750	0.454527066
3573003803750	357300	3803750	0.414821626
3573253803750	357325	3803750	0.382404992
3573503803750	357350	3803750	0.351861373
3571003803775	357100	3803775	1.438707714
3571253803775	357125	3803775	1.122434489
3571503803775	357150	3803775	0.904492636
3571753803775	357175	3803775	0.753780467
3572003803775	357200	3803775	0.638035363
3572253803775	357225	3803775	0.558044087
3572503803775	357250	3803775	0.503354587
3572753803775	357275	3803775	0.455062291
3573003803775	357300	3803775	0.416813105
3573253803775	357325	3803775	0.384869064
3573503803775	357350	3803775	0.354821803
3570253803800	357025	3803800	3.391337239

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.002766881	0.00212587	0.002021263
0.004930244	0.003865715	0.003879439
0.004039998	0.00313756	0.003034433
0.003538594	0.002736108	0.002613809
0.003179902	0.002452113	0.002334123
0.002896444	0.002229358	0.002124383
0.009394806	0.007562798	0.008377753
0.006010962	0.004757586	0.00495213
0.003217625	0.002488234	0.002388439
0.002959285	0.002284956	0.002195386
0.010367721	0.008304029	0.009002812
0.007062046	0.005584807	0.005778075
0.005308216	0.004158232	0.004152339
0.004400622	0.003431307	0.003360433
0.003816819	0.002965416	0.002872675
0.003443926	0.002670903	0.002578175
0.003159411	0.002446117	0.002359656
0.002934974	0.002268879	0.002191358
0.010921063	0.008659548	0.008990468
0.00786063	0.006174603	0.00619337
0.006073892	0.004741966	0.004645024
0.004991692	0.003889179	0.00376865
0.004258509	0.003310355	0.003185384
0.003769742	0.002925198	0.002808924
0.003436992	0.002664709	0.002562486
0.003166631	0.002453309	0.002367896
0.002929244	0.002267128	0.002197565
0.015766207	0.01234645	0.012195704
0.01117878	0.008715351	0.00842083
0.008521303	0.006626565	0.00632808
0.006818321	0.005296288	0.005031946
0.005591193	0.00433573	0.004097638
0.004794567	0.003724027	0.003534746
0.004234663	0.003288071	0.003126948
0.003801186	0.002949615	0.00281536
0.003475135	0.002696138	0.002588671
0.003207298	0.002487414	0.002403518
0.002954269	0.002288946	0.002224723
0.012004908	0.009212035	0.008213589
0.009362061	0.00720728	0.006501818
0.007550629	0.005823907	0.005300232
0.006296195	0.004867339	0.004477832
0.005339473	0.004131939	0.003829693
0.004669209	0.003622661	0.003398772
0.004215482	0.003274484	0.003098033
0.003814968	0.002963332	0.002825452
0.003496022	0.002715371	0.002610178
0.003228867	0.002507186	0.002429473
0.00297828	0.002310387	0.002254069
0.029371293	0.021921617	0.017290222

# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.0950329

RESIDENTIAL RECEPTORS ONLY MAX: 7.0400

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3570503803800	357050	3803800	2.158506324
3570753803800	357075	3803800	1.576571381
3571003803800	357100	3803800	1.226807849
3571253803800	357125	3803800	0.9993357
3571503803800	357150	3803800	0.835479942
3571753803800	357175	3803800	0.713424853
3572003803800	357200	3803800	0.617405625
3572253803800	357225	3803800	0.551230757
3572503803800	357250	3803800	0.497177211
3572753803800	357275	3803800	0.451297933
3573003803800	357300	3803800	0.414464094
3573253803800	357325	3803800	0.383177723
3573503803800	357350	3803800	0.355880488
3570253803825	357025	3803825	2.677687271
3570503803825	357050	3803825	1.836109752
3570753803825	357075	3803825	1.398876754
3571003803825	357100	3803825	1.125921065
3571253803825	357125	3803825	0.934737043
3571503803825	357150	3803825	0.803319732
3571753803825	357175	3803825	0.694701653
3572003803825	357200	3803825	0.610373274
3572253803825	357225	3803825	0.551253091
3572503803825	357250	3803825	0.496821175
3572753803825	357275	3803825	0.450793234
3573003803825	357300	3803825	0.415062926
3573253803825	357325	3803825	0.384779398
3573503803825	357350	3803825	0.358689795
3570253803850	357025	3803850	2.364268086
3570503803850	357050	3803850	1.682988413
3570753803850	357075	3803850	1.311026863
3571003803850	357100	3803850	1.077751161
3571253803850	357125	3803850	0.907044679
3571503803850	357150	3803850	0.7888673
3571753803850	357175	3803850	0.699661509
3572003803850	357200	3803850	0.625529145
3572253803850	357225	3803850	0.565583094
3572503803850	357250	3803850	0.507292875
3572753803850	357275	3803850	0.458675295
3573003803850	357300	3803850	0.420932594
3573253803850	357325	3803850	0.389985051
3573503803850	357350	3803850	0.365826466
3570003803875	357000	3803875	3.613002775
3570253803875	357025	3803875	2.194469395
3570503803875	357050	3803875	1.602371697
3570753803875	357075	3803875	1.263842541
3571003803875	357100	3803875	1.049047502
3571253803875	357125	3803875	0.905339487
3571503803875	357150	3803875	0.789673944
3571753803875	357175	3803875	0.702127613
3572003803875	357200	3803875	0.629901454

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.018691066	0.014041844	0.011215442
0.013550455	0.010266367	0.008465786
0.010472923	0.00798957	0.006780388
0.008480111	0.006505032	0.005668954
0.007060203	0.005439033	0.004845017
0.00601326	0.004648047	0.004216156
0.005197651	0.004025447	0.003703487
0.00462708	0.003597007	0.003367132
0.004173775	0.003245676	0.003068685
0.00378833	0.002945624	0.002812327
0.003478342	0.002704153	0.00260625
0.003215251	0.002498465	0.002428975
0.002985965	0.002318644	0.002271947
0.023550032	0.017581807	0.013360991
0.01609085	0.012113025	0.009422729
0.012142033	0.009222746	0.007457229
0.009685387	0.007406094	0.006208195
0.007982975	0.006138219	0.005300636
0.006811879	0.005269291	0.004690723
0.005869238	0.004553406	0.004133503
0.005142344	0.003998124	0.003694508
0.004630409	0.003610199	0.003391752
0.004171502	0.003251379	0.003087497
0.003783869	0.002947263	0.002826346
0.003482318	0.002711056	0.002625361
0.003226441	0.002510562	0.002454123
0.003006857	0.002337741	0.002303911
0.020734965	0.015648377	0.012048252
0.014700368	0.011185753	0.008823425
0.011357378	0.008701379	0.007113295
0.00924505	0.007131999	0.006064051
0.007728868	0.005988824	0.005238345
0.006674451	0.005199046	0.004682258
0.00588438	0.004605086	0.004249358
0.005250589	0.004111869	0.003852171
0.004737444	0.003712859	0.003531169
0.004248882	0.003325357	0.003192174
0.003842173	0.003002194	0.002906275
0.003524967	0.002751168	0.002687508
0.003264783	0.002545269	0.002507926
0.003060552	0.002384323	0.002370669
0.030878208	0.023644835	0.019303869
0.019041269	0.014601304	0.011621944
0.013850995	0.010694573	0.008712848
0.010857303	0.008419465	0.007069238
0.008938132	0.006967388	0.006057437
0.00764944	0.005998001	0.005389101
0.006637961	0.005219643	0.004799344
0.005882657	0.004631789	0.004336682
0.005266109	0.00414698	0.003943334

# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.0950329

RESIDENTIAL RECEPTORS ONLY MAX: 7.0400

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3572253803875	357225	3803875	0.56972277
3572503803875	357250	3803875	0.517069471
3572753803875	357275	3803875	0.472322849
3573003803875	357300	3803875	0.435487178
3573253803875	357325	3803875	0.403221934
3573503803875	357350	3803875	0.375599816
3570003803900	357000	3803900	3.285641727
3570253803900	357025	3803900	2.098704171
3570503803900	357050	3803900	1.558497767
3570753803900	357075	3803900	1.238940539
3571003803900	357100	3803900	1.029115694
3571253803900	357125	3803900	0.901699327
3571503803900	357150	3803900	0.787997158
3571753803900	357175	3803900	0.703727719
3572003803900	357200	3803900	0.631969547
3572253803900	357225	3803900	0.571317759
3572503803900	357250	3803900	0.522075124
3572753803900	357275	3803900	0.47935109
3573003803900	357300	3803900	0.442242706
3573253803900	357325	3803900	0.40890879
3573503803900	357350	3803900	0.379596055
3570003803925	357000	3803925	3.068747421
3570253803925	357025	3803925	2.044064194
3570503803925	357050	3803925	1.534222696
3570753803925	357075	3803925	1.226681713
3571003803925	357100	3803925	1.020259993
3571253803925	357125	3803925	0.877852291
3571503803925	357150	3803925	0.77279143
3571753803925	357175	3803925	0.70624725
3572003803925	357200	3803925	0.636841835
3572253803925	357225	3803925	0.575755515
3572503803925	357250	3803925	0.524896486
3572753803925	357275	3803925	0.481675498
3573003803925	357300	3803925	0.442844349
3573253803925	357325	3803925	0.408927297
3573503803925	357350	3803925	0.379731553
3570003803950	357000	3803950	2.930541433
3570253803950	357025	3803950	2.010571322
3570503803950	357050	3803950	1.522033771
3570753803950	357075	3803950	1.222577176
3571003803950	357100	3803950	1.020804112
3571253803950	357125	3803950	0.874268189
3571503803950	357150	3803950	0.773627404
3571753803950	357175	3803950	0.703853299
3572003803950	357200	3803950	0.638643511
3572253803950	357225	3803950	0.581704185
3572503803950	357250	3803950	0.530469271
3572753803950	357275	3803950	0.485463374
3573003803950	357300	3803950	0.444091831
3573253803950	357325	3803950	0.408972105

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.004755226	0.003743705	0.003608921
0.004313563	0.003391542	0.00330361
0.003939782	0.003092521	0.003039468
0.003631538	0.002846316	0.00282277
0.003362743	0.002630955	0.002629371
0.003132522	0.002446712	0.0024634
0.027758086	0.021647175	0.018246357
0.017906307	0.014015354	0.0116751
0.013276153	0.010426782	0.008854398
0.010515835	0.008271204	0.007188653
0.0086951	0.006848951	0.006100241
0.007554691	0.005983808	0.005513448
0.00658269	0.005215822	0.004889775
0.005865923	0.004646561	0.004426223
0.005259675	0.004162502	0.004021129
0.004751767	0.003754531	0.003668294
0.004339582	0.003423493	0.003381544
0.003983759	0.003136749	0.003127521
0.003675576	0.002888089	0.002903865
0.003400888	0.002665443	0.00269695
0.00315996	0.002469997	0.00251246
0.025459719	0.020331996	0.017946275
0.017086866	0.013682293	0.012008085
0.012837056	0.010281047	0.009132988
0.010268663	0.008197891	0.007396836
0.008528982	0.006795465	0.006233264
0.007321695	0.005829503	0.005445028
0.006431287	0.005117851	0.004862444
0.005852987	0.004662603	0.004526165
0.005272333	0.004192562	0.004124181
0.00476845	0.003780954	0.003753116
0.004349316	0.003438728	0.003442227
0.003992867	0.003148216	0.00317752
0.00367495	0.002888297	0.002932619
0.003398104	0.002661791	0.002715795
0.003159539	0.002467009	0.002529022
0.023766292	0.019494725	0.018161338
0.01645029	0.013473658	0.012461584
0.012531782	0.010192227	0.009469441
0.010089776	0.008166243	0.007652007
0.008435225	0.006798038	0.00643574
0.007231811	0.005804609	0.005550536
0.006394971	0.005121573	0.004966948
0.005807114	0.004643337	0.004578647
0.005265162	0.004199418	0.004197728
0.004796034	0.00381358	0.003854095
0.004377049	0.003468201	0.003534913
0.004011778	0.003166161	0.003246612
0.003680312	0.002890767	0.002967551
0.003396872	0.002656891	0.002734845

# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

RESIDENTIAL RECEPTORS ONLY      MAX:      7.0400

MAX:      0.0950329

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3573503803950	357350	3803950	0.379579445
3570003803975	357000	3803975	2.844801098
3570253803975	357025	3803975	1.989855613
3570503803975	357050	3803975	1.515306397
3570753803975	357075	3803975	1.239767868
3571003803975	357100	3803975	1.040807416
3571253803975	357125	3803975	0.887664451
3571503803975	357150	3803975	0.782916811
3571753803975	357175	3803975	0.703560471
3572003803975	357200	3803975	0.638608894
3572253803975	357225	3803975	0.581668655
3572503803975	357250	3803975	0.528924525
3572753803975	357275	3803975	0.479401672
3573003803975	357300	3803975	0.433357522
3573253803975	357325	3803975	0.389681073
3573503803975	357350	3803975	0.350874342
3570003804000	357000	3804000	2.800391287
3570253804000	357025	3804000	1.974735205
3570503804000	357050	3804000	1.50973159
3570753804000	357075	3804000	1.24829182
3571003804000	357100	3804000	1.058987655
3571253804000	357125	3804000	0.912374661
3571503804000	357150	3804000	0.800227106
3571753804000	357175	3804000	0.71038568
3572003804000	357200	3804000	0.639528558
3572253804000	357225	3804000	0.576860423
3572503804000	357250	3804000	0.496330024
3572753804000	357275	3804000	0.454311736
3573003804000	357300	3804000	0.409609601
3573253804000	357325	3804000	0.369220292
3573503804000	357350	3804000	0.334642205
3570003804025	357000	3804025	2.783301275
3570253804025	357025	3804025	1.961715324
3570503804025	357050	3804025	1.501767671
3570753804025	357075	3804025	1.246458558
3571003804025	357100	3804025	1.058335842
3571253804025	357125	3804025	0.913631117
3571503804025	357150	3804025	0.800523516
3571753804025	357175	3804025	0.709484623
3572003804025	357200	3804025	0.631739292
3570003804050	357000	3804050	2.770459162
3570253804050	357025	3804050	1.944170611
3570503804050	357050	3804050	1.49015725
3570753804050	357075	3804050	1.237256655
3571003804050	357100	3804050	1.046521195
3571253804050	357125	3804050	0.901856844
3571503804050	357150	3804050	0.788842252
3571753804050	357175	3804050	0.687700282
3572003804050	357200	3804050	0.583520494
3570003804075	357000	3804075	2.710308487

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.003158082	0.002460772	0.002544195
0.022542506	0.018966602	0.018612191
0.015956898	0.013336175	0.012934537
0.012276315	0.010134605	0.009815991
0.01007918	0.008272317	0.008072009
0.00849603	0.006924775	0.006786273
0.007274789	0.005888026	0.005787274
0.006424749	0.005175951	0.005133662
0.005780897	0.00463455	0.004643452
0.005248737	0.004191404	0.004250633
0.004783576	0.00380456	0.003900364
0.004356235	0.003448768	0.00356482
0.003958113	0.003117534	0.003238951
0.003587603	0.002810662	0.002932962
0.003235561	0.002521151	0.002639424
0.002922625	0.002264963	0.002376055
0.021778341	0.018667685	0.019115158
0.015581773	0.013222306	0.013327267
0.012075588	0.010083157	0.010091553
0.010038873	0.008316002	0.008362727
0.00855866	0.007029263	0.007097253
0.00740985	0.00603446	0.006110138
0.006522514	0.005273394	0.00536789
0.005809762	0.004665459	0.004771587
0.005242881	0.004184972	0.004312009
0.004736827	0.003759482	0.003915188
0.004087982	0.003221384	0.003384682
0.00375594	0.002942144	0.003092951
0.00339876	0.002646285	0.002786086
0.003074799	0.002379911	0.002508756
0.00279679	0.002152524	0.002270879
0.021385193	0.018516738	0.019528751
0.015311954	0.013110456	0.013588414
0.011906171	0.01000904	0.010269547
0.009957246	0.008283778	0.008511995
0.008510183	0.007000615	0.007222799
0.00738716	0.00601958	0.006227484
0.006505512	0.005254806	0.005450027
0.005791337	0.004640739	0.004828302
0.00517453	0.004114656	0.004312642
0.021184523	0.018375901	0.019702785
0.015099316	0.012960628	0.013668679
0.011765818	0.009902806	0.010338223
0.009860764	0.008194138	0.008548502
0.008406587	0.006894935	0.007214704
0.007293434	0.005919023	0.006194603
0.006414935	0.005154299	0.005415683
0.005621972	0.00447185	0.004725932
0.004796874	0.003777171	0.004011528
0.020780126	0.017926136	0.01930261



# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

RESIDENTIAL RECEPTORS ONLY      MAX:      7.0400

MAX:      0.0950329

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3570253804075	357025	3804075	1.90557246
3570503804075	357050	3804075	1.454139918
3570753804075	357075	3804075	1.19873681
3571003804075	357100	3804075	1.024574208
3571253804075	357125	3804075	0.882193723
3571503804075	357150	3804075	0.73489513
3570003804100	357000	3804100	2.573684899
3570253804100	357025	3804100	1.836426967
3570503804100	357050	3804100	1.412143191
3570753804100	357075	3804100	1.16209244
3571003804100	357100	3804100	0.992694117
3571253804100	357125	3804100	0.857106656
3571503804100	357150	3804100	0.681688094
3569753804125	356975	3804125	3.921437291
3570003804125	357000	3804125	2.404306883
3570253804125	357025	3804125	1.733805597
3570503804125	357050	3804125	1.364864389
3570753804125	357075	3804125	1.130377325
3571003804125	357100	3804125	0.95845456
3571253804125	357125	3804125	0.827038753
3569753804150	356975	3804150	3.278740141
3570253804150	357025	3804150	1.584882818
3570753804150	357075	3804150	1.068029423
3565753804390	356575	3804390	3.481175579
3566003804390	356600	3804390	4.602138895
3566253804390	356625	3804390	5.645685723
3566503804390	356650	3804390	6.46909397
3566753804390	356675	3804390	6.954521266
3567003804390	356700	3804390	7.039983273 <b>MAX HERE</b>
3567253804390	356725	3804390	6.74976022
3567503804390	356750	3804390	6.015283295
3567503804415	356750	3804415	3.852293699
3568253804400	356825	3804400	2.46595676
3562003804425	356200	3804425	0.207764107
3562253804425	356225	3804425	0.233115731
3562503804425	356250	3804425	0.26798672
3565503804415	356550	3804415	2.261387461
3565753804415	356575	3804415	2.844984311
3566003804415	356600	3804415	3.466063076
3566253804415	356625	3804415	4.013548514
3566503804415	356650	3804415	4.409747725
3566753804415	356675	3804415	4.60632966
3567003804415	356700	3804415	4.575934931
3567253804415	356725	3804415	4.317832543
3568253804425	356825	3804425	1.935560371
3568503804425	356850	3804425	1.617091605
3568753804425	356875	3804425	1.372431762
3569003804425	356900	3804425	1.176537068
3569253804425	356925	3804425	0.993461603
3569503804425	356950	3804425	0.751898424

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.014808559	0.012666933	0.013465143
0.01144489	0.00965791	0.010173743
0.009556636	0.007921367	0.008308422
0.008250943	0.006723908	0.007083201
0.007156539	0.005761134	0.00608375
0.006007509	0.004765462	0.005075439
0.01990225	0.016996174	0.018196299
0.01434274	0.012170613	0.012948634
0.011141809	0.009350731	0.009893421
0.009285898	0.007650411	0.008071556
0.008013961	0.006504599	0.006853077
0.006987132	0.005575421	0.005902587
0.005615918	0.004393373	0.00470191
0.030343803	0.025533844	0.027189344
0.018787969	0.015846233	0.016818089
0.013704399	0.011428103	0.01212874
0.01087324	0.008976848	0.009517047
0.009081067	0.007408506	0.007844565
0.007773043	0.006254159	0.00661304
0.00677795	0.005360422	0.005681953
0.025771763	0.021398058	0.022400591
0.012765318	0.010325943	0.010936798
0.008722342	0.006915561	0.007356354
0.038048495	0.018619294	0.021800754
0.051339136	0.024032309	0.028888173
0.063915567	0.028927255	0.035979793
0.074029105	0.032797414	0.041770485
0.080576592	0.035433157	0.044881825
0.081744369	0.036288208	0.04502807
0.077590215	0.035258233	0.042715457
0.067518643	0.031918182	0.038019283
0.041667613	0.021054417	0.024811049
0.024165464	0.014294998	0.016220091
0.001839994	0.00128661	0.00141617
0.00207102	0.001439647	0.00159095
0.00239149	0.001648911	0.001831111
0.02404894	0.012413984	0.014596005
0.030904015	0.015346064	0.018248029
0.038313946	0.018412223	0.022258041
0.044934919	0.021103245	0.025923092
0.049787979	0.023117668	0.028578761
0.052183554	0.024255887	0.029797434
0.051577585	0.024314949	0.029460918
0.047955058	0.02322335	0.027707082
0.018838037	0.011281535	0.012774179
0.015412496	0.009552494	0.010714467
0.012853912	0.008193625	0.009125563
0.010846885	0.007087512	0.00785446
0.009033409	0.006033854	0.006659984
0.00681119	0.004591589	0.005040066

# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.0950329

RESIDENTIAL RECEPTORS ONLY MAX: 7.0400

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3569753804425	356975	3804425	0.56992351
3561503804450	356150	3804450	0.166184585
3561753804450	356175	3804450	0.184132474
3562003804450	356200	3804450	0.20570374
3562253804450	356225	3804450	0.233802932
3562503804450	356250	3804450	0.268017294
3563253804450	356325	3804450	0.40839922
3565503804450	356550	3804450	1.88703463
3565753804450	356575	3804450	2.212788245
3566003804450	356600	3804450	2.521091976
3566253804450	356625	3804450	2.770612989
3566503804450	356650	3804450	2.928098532
3566753804450	356675	3804450	2.972354018
3567003804450	356700	3804450	2.897472248
3567253804450	356725	3804450	2.707337709
3567503804450	356750	3804450	2.44878566
3567753804450	356775	3804450	2.144960234
3568753804450	356875	3804450	1.167046535
3569253804450	356925	3804450	0.890658122
3569753804450	356975	3804450	0.540328724
3561503804475	356150	3804475	0.163554824
3561753804475	356175	3804475	0.183697363
3562003804475	356200	3804475	0.207649416
3562253804475	356225	3804475	0.232001973
3562503804475	356250	3804475	0.259788627
3563253804475	356325	3804475	0.403683079
3565503804475	356550	3804475	1.655004957
3565753804475	356575	3804475	1.874194687
3566003804475	356600	3804475	2.069899083
3566253804475	356625	3804475	2.217813855
3566503804475	356650	3804475	2.298806901
3566753804475	356675	3804475	2.301470233
3567003804475	356700	3804475	2.226825955
3567253804475	356725	3804475	2.084581006
3567503804475	356750	3804475	1.898047244
3567753804475	356775	3804475	1.691259963
3568503804475	356850	3804475	1.135676661
3568753804475	356875	3804475	1.003746494
3569003804475	356900	3804475	0.890774447
3569253804475	356925	3804475	0.793604252
3569503804475	356950	3804475	0.699773941
3569753804475	356975	3804475	0.571793725
3570003804475	357000	3804475	0.448345957
3570253804475	357025	3804475	0.422010517
3570503804475	357050	3804475	0.444134765
3570753804475	357075	3804475	0.422765943
3571003804475	357100	3804475	0.367770681
3571253804475	357125	3804475	0.334212435
3571503804475	357150	3804475	0.314330914
3571753804475	357175	3804475	0.290473359

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.005157827	0.003491231	0.003820363
0.001467545	0.001032407	0.001129609
0.001629799	0.001141485	0.001253225
0.001825853	0.001272032	0.00140187
0.002082908	0.001441249	0.001595463
0.00239882	0.00164596	0.001830855
0.003729198	0.002472127	0.002789729
0.019895784	0.010435007	0.012330733
0.023694409	0.012102601	0.014418373
0.027327487	0.013675958	0.016427353
0.030271933	0.014966842	0.018071487
0.032088592	0.01582469	0.019098658
0.032477364	0.016140615	0.019360855
0.031348054	0.015862839	0.018846635
0.028785024	0.014989289	0.017620198
0.025444109	0.013739526	0.015992322
0.02169921	0.012218874	0.014083406
0.010918887	0.006976324	0.007777566
0.008129245	0.00540153	0.005972457
0.004879003	0.003311699	0.003627481
0.001447484	0.001014685	0.001111563
0.001629826	0.001137026	0.001250244
0.001848166	0.001281709	0.001415205
0.00207216	0.001427806	0.001582906
0.002329947	0.001593491	0.00177395
0.003701018	0.002438007	0.002754475
0.017305283	0.00921137	0.010878761
0.019831906	0.010351078	0.012293973
0.022096549	0.011372698	0.013569441
0.023789807	0.012162034	0.01453772
0.024660612	0.012626624	0.015062257
0.024555878	0.012704313	0.015068983
0.023496495	0.012387581	0.014577172
0.021633769	0.01171349	0.013663317
0.019299341	0.010790946	0.0124775
0.016825611	0.009736039	0.011161273
0.010722796	0.006751415	0.007567005
0.009368159	0.006011044	0.006703007
0.008229812	0.005367514	0.005960384
0.007265807	0.004807253	0.005319831
0.006342495	0.004264349	0.004705217
0.005151695	0.003503571	0.00384066
0.00403057	0.002755453	0.003013646
0.003783388	0.002597933	0.002838355
0.003941699	0.00274476	0.002997836
0.003724117	0.002621815	0.002862825
0.003251546	0.002281052	0.002479112
0.002953096	0.002074903	0.002252413
0.002768058	0.001955749	0.002118894
0.002555668	0.001809086	0.001957498

# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.0950329

RESIDENTIAL RECEPTORS ONLY MAX: 7.0400

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3572003804475	357200	3804475	0.254612452
3572253804475	357225	3804475	0.234137429
3572503804475	357250	3804475	0.219153328
3573003804475	357300	3804475	0.203116054
3573253804475	357325	3804475	0.199950621
3573503804475	357350	3804475	0.186613962
3560003804500	356000	3804500	0.094448359
3560253804500	356025	3804500	0.101995216
3560503804500	356050	3804500	0.110782791
3560753804500	356075	3804500	0.121644562
3561003804500	356100	3804500	0.134571123
3561253804500	356125	3804500	0.14850386
3561503804500	356150	3804500	0.164008134
3561753804500	356175	3804500	0.184087456
3562003804500	356200	3804500	0.209527514
3562253804500	356225	3804500	0.22985287
3562503804500	356250	3804500	0.252741246
3563003804500	356300	3804500	0.358095302
3563253804500	356325	3804500	0.41363202
3565253804500	356525	3804500	1.293155235
3565503804500	356550	3804500	1.453021835
3565753804500	356575	3804500	1.603064852
3566003804500	356600	3804500	1.72927684
3566253804500	356625	3804500	1.817341185
3566503804500	356650	3804500	1.856235194
3566753804500	356675	3804500	1.84129828
3567003804500	356700	3804500	1.774435852
3567253804500	356725	3804500	1.665194581
3567503804500	356750	3804500	1.527833074
3567753804500	356775	3804500	1.378824618
3568003804500	356800	3804500	1.231922121
3568253804500	356825	3804500	1.090932507
3568503804500	356850	3804500	0.974594515
3568753804500	356875	3804500	0.871872294
3569003804500	356900	3804500	0.781471269
3569253804500	356925	3804500	0.702735988
3569503804500	356950	3804500	0.636642971
3569753804500	356975	3804500	0.578131841
3570003804500	357000	3804500	0.51891432
3570253804500	357025	3804500	0.46571969
3570503804500	357050	3804500	0.437606492
3570753804500	357075	3804500	0.404060793
3571003804500	357100	3804500	0.371884916
3571253804500	357125	3804500	0.343637285
3571503804500	357150	3804500	0.318167934
3571753804500	357175	3804500	0.294718169
3572003804500	357200	3804500	0.263355957
3572253804500	357225	3804500	0.235051321
3572503804500	357250	3804500	0.216821383
3573253804500	357325	3804500	0.200724864

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.002253072	0.001581704	0.001712913
0.002073325	0.001454308	0.001573836
0.00193972	0.001361847	0.001472174
0.001787116	0.00126724	0.001364232
0.001746352	0.00125346	0.001344372
0.001632567	0.001168956	0.001253608
0.00083026	0.000589831	0.000638216
0.000897708	0.000636339	0.00068962
0.00097628	0.00069043	0.000749578
0.001073366	0.000757245	0.00082388
0.001189171	0.000836587	0.00091239
0.001314585	0.000921669	0.00100814
0.001454823	0.001015926	0.00111481
0.001637129	0.001137629	0.001253019
0.001869796	0.001290982	0.001428061
0.002058162	0.001412264	0.001567909
0.002272297	0.001547956	0.001725114
0.003272538	0.002168241	0.002442686
0.003814447	0.002489847	0.002817837
0.013245217	0.007298298	0.008562092
0.015053861	0.008142355	0.009592955
0.01675737	0.008934875	0.010565661
0.018184393	0.009608245	0.011388044
0.019153985	0.010093003	0.01196273
0.019524842	0.010333208	0.012214032
0.019238858	0.010301189	0.012113109
0.018331463	0.009999188	0.011678042
0.016941939	0.009468542	0.010975055
0.015269391	0.008776499	0.010094891
0.013529755	0.008004609	0.009137779
0.011885596	0.007224221	0.008188211
0.010368577	0.006457241	0.007270171
0.009157071	0.005811721	0.00650842
0.00811228	0.005232085	0.005832791
0.007208898	0.004714885	0.005236081
0.006432866	0.004259436	0.00471505
0.005787855	0.003874144	0.004277211
0.005222251	0.003530888	0.003889382
0.004652529	0.003183471	0.003498696
0.004144386	0.002869751	0.003145742
0.003886527	0.002699307	0.002956064
0.003575673	0.002497683	0.002731009
0.003277354	0.002304989	0.002516274
0.003018193	0.002134758	0.002326812
0.002786338	0.001980653	0.00215552
0.00257449	0.001838129	0.001997431
0.002306481	0.001643934	0.001780125
0.002069666	0.001464828	0.00158288
0.00191204	0.001350751	0.001458106
0.001738133	0.001261654	0.001359151

# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.0950329

RESIDENTIAL RECEPTORS ONLY MAX: 7.0400

Overlapping Phases - Maximum GLC

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3573503804500	357350	3804500	0.188578072
3560003804525	356000	3804525	0.09643796
3560253804525	356025	3804525	0.104648595
3560503804525	356050	3804525	0.113610808
3560753804525	356075	3804525	0.124130571
3561003804525	356100	3804525	0.136409803
3561253804525	356125	3804525	0.149028417
3561503804525	356150	3804525	0.160943454
3561753804525	356175	3804525	0.179614522
3562003804525	356200	3804525	0.208956189
3562253804525	356225	3804525	0.229389056
3562503804525	356250	3804525	0.252622338
3565253804525	356525	3804525	1.163325621
3565503804525	356550	3804525	1.279008696
3565753804525	356575	3804525	1.382663829
3566003804525	356600	3804525	1.464692331
3566253804525	356625	3804525	1.516510009
3566503804525	356650	3804525	1.531975132
3566753804525	356675	3804525	1.509656284
3567003804525	356700	3804525	1.452242332
3567253804525	356725	3804525	1.366746302
3567503804525	356750	3804525	1.263141139
3567753804525	356775	3804525	1.151886569
3568003804525	356800	3804525	1.042735821
3568253804525	356825	3804525	0.93924822
3568503804525	356850	3804525	0.846449701
3568753804525	356875	3804525	0.764628426
3569003804525	356900	3804525	0.69191119
3569253804525	356925	3804525	0.627342083
3569503804525	356950	3804525	0.570605334
3569753804525	356975	3804525	0.521055624
3570003804525	357000	3804525	0.479074631
3570253804525	357025	3804525	0.441103196
3570503804525	357050	3804525	0.406259266
3570753804525	357075	3804525	0.375308001
3571003804525	357100	3804525	0.347971692
3571253804525	357125	3804525	0.323496107
3571503804525	357150	3804525	0.301436686
3571753804525	357175	3804525	0.280440333
3572003804525	357200	3804525	0.254358318
3572253804525	357225	3804525	0.225863981
3572503804525	357250	3804525	0.215626739
3572753804525	357275	3804525	0.215507564
3573003804525	357300	3804525	0.205745651
3573253804525	357325	3804525	0.19415654
3573503804525	357350	3804525	0.182269576
3560003804550	356000	3804550	0.09755073
3560253804550	356025	3804550	0.106251424
3560503804550	356050	3804550	0.113847894
3560753804550	356075	3804550	0.123464916

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.001634441	0.001186556	0.001276469
0.000849412	0.000601607	0.000651593
0.000922755	0.000652204	0.000707604
0.001003031	0.000707268	0.000768862
0.001097367	0.00077179	0.000840901
0.001207732	0.000846892	0.000925166
0.001321885	0.00092363	0.001011913
0.001430739	0.000995483	0.001094014
0.001600772	0.001108435	0.001222418
0.001869051	0.001285443	0.001424071
0.002059568	0.001406923	0.001564403
0.002278332	0.001544151	0.001723588
0.011833366	0.006597494	0.007723517
0.013124908	0.007215548	0.008472914
0.014280479	0.007771875	0.009146504
0.015183153	0.008219057	0.009681088
0.015725727	0.008514265	0.010018966
0.015832281	0.008625093	0.010118901
0.015488675	0.008541097	0.0099727
0.014737651	0.008271413	0.009600187
0.013679135	0.007847487	0.009048111
0.012447564	0.007317335	0.008379797
0.011175298	0.006733521	0.007660199
0.009973745	0.006147676	0.006950511
0.008873794	0.005580416	0.006273631
0.007916393	0.005062249	0.005663504
0.007091275	0.004598201	0.005123248
0.006370085	0.004180493	0.004641533
0.005737711	0.003805802	0.004212798
0.005187512	0.003473976	0.003835562
0.004710903	0.003182455	0.003505836
0.004309348	0.002934561	0.003226528
0.003948658	0.002709476	0.002973819
0.003620827	0.0025019	0.002741328
0.003331622	0.00231689	0.002534569
0.003077644	0.002153033	0.002351817
0.002851691	0.002005874	0.002187964
0.002649032	0.001872972	0.002040057
0.002456489	0.001746555	0.001899342
0.002224734	0.001588796	0.001723726
0.001987128	0.001408403	0.00152096
0.001892342	0.001346841	0.001451968
0.001873604	0.001350512	0.001459966
0.001787152	0.001290088	0.001393304
0.001684434	0.001218873	0.001314471
0.00157997	0.001145518	0.001233291
0.000860677	0.000607913	0.000659221
0.000938369	0.000661528	0.000718601
0.001006817	0.000707905	0.000770731
0.001093405	0.000766663	0.000836697

# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.0950329

RESIDENTIAL RECEPTORS ONLY MAX: 7.0400

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3561003804550	356100	3804550	0.13699639
3561253804550	356125	3804550	0.150619209
3561503804550	356150	3804550	0.162822841
3561753804550	356175	3804550	0.178776214
3562003804550	356200	3804550	0.205251358
3562253804550	356225	3804550	0.229504315
3562503804550	356250	3804550	0.25596143
3565253804550	356525	3804550	1.045586672
3565503804550	356550	3804550	1.129671024
3565753804550	356575	3804550	1.201572902
3566003804550	356600	3804550	1.254830869
3566253804550	356625	3804550	1.284188672
3566503804550	356650	3804550	1.286817179
3566753804550	356675	3804550	1.262170754
3567003804550	356700	3804550	1.213335037
3567253804550	356725	3804550	1.145452298
3567503804550	356750	3804550	1.065396423
3567753804550	356775	3804550	0.980152984
3568003804550	356800	3804550	0.895665085
3568253804550	356825	3804550	0.81533529
3568503804550	356850	3804550	0.741993895
3568753804550	356875	3804550	0.674752056
3569003804550	356900	3804550	0.616257838
3569253804550	356925	3804550	0.563394126
3569503804550	356950	3804550	0.516129398
3569753804550	356975	3804550	0.474234297
3570003804550	357000	3804550	0.437700074
3570253804550	357025	3804550	0.404735862
3570503804550	357050	3804550	0.374980204
3570753804550	357075	3804550	0.348434226
3571003804550	357100	3804550	0.324692584
3571253804550	357125	3804550	0.303393215
3571503804550	357150	3804550	0.2834489
3571753804550	357175	3804550	0.263313198
3572003804550	357200	3804550	0.238076639
3572253804550	357225	3804550	0.217435543
3572503804550	357250	3804550	0.215611278
3572753804550	357275	3804550	0.208644791
3573003804550	357300	3804550	0.196880163
3573253804550	357325	3804550	0.186620083
3573503804550	357350	3804550	0.176387341
3560003804575	356000	3804575	0.09829049
3560253804575	356025	3804575	0.107392145
3560503804575	356050	3804575	0.115003951
3560753804575	356075	3804575	0.123903302
3561003804575	356100	3804575	0.136542436
3561253804575	356125	3804575	0.151142361
3561503804575	356150	3804575	0.163713913
3561753804575	356175	3804575	0.178345173
3562003804575	356200	3804575	0.201494636

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.001214956	0.000849485	0.000929446
0.001338331	0.000932266	0.001023115
0.001450197	0.001005666	0.001107162
0.001596718	0.00110155	0.00121686
0.001839776	0.001260878	0.001398599
0.002066134	0.001405109	0.001564839
0.002316192	0.001561181	0.00174561
0.010557082	0.005959804	0.006957858
0.011481846	0.006414534	0.00750428
0.012267286	0.006806662	0.00797235
0.012835276	0.007103542	0.008319647
0.013121445	0.007278306	0.008511253
0.013092647	0.00731527	0.008528251
0.012746566	0.007209228	0.008367749
0.012128011	0.00697309	0.00805064
0.011307917	0.006630592	0.007610518
0.010376392	0.006215361	0.007091156
0.009419193	0.005762999	0.006536596
0.008502791	0.005305285	0.005984403
0.007658899	0.004861697	0.005456717
0.006909227	0.004449776	0.004972648
0.006236566	0.004066522	0.00452704
0.005660677	0.003729186	0.004138316
0.005146041	0.003421465	0.003786348
0.004689944	0.003144364	0.003471216
0.004288477	0.002897383	0.003191775
0.003940284	0.002681174	0.002948096
0.00362794	0.002485407	0.002728172
0.00334778	0.002308111	0.00252948
0.00309911	0.002149532	0.002352165
0.002877884	0.002007337	0.002193452
0.002680441	0.0018795	0.002050881
0.002495542	0.001759963	0.001917607
0.002311351	0.001638472	0.001782652
0.002087574	0.001485361	0.001611204
0.001911324	0.001356528	0.001464772
0.001881134	0.001349663	0.001461333
0.00181895	0.001304996	0.001412387
0.001714309	0.001232714	0.001332475
0.00162289	0.001169846	0.001262751
0.001531427	0.001107318	0.00119341
0.00086837	0.000611962	0.000664461
0.000949593	0.000668015	0.00072662
0.001018289	0.000714402	0.000778897
0.001098803	0.000768544	0.000840052
0.001212797	0.000845648	0.000926736
0.001345149	0.000934334	0.001026963
0.001460779	0.00100979	0.001113449
0.001596171	0.001097231	0.001214018
0.001810084	0.001235984	0.001372693

# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

RESIDENTIAL RECEPTORS ONLY      MAX:      7.0400

MAX:      0.0950329

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3562253804575	356225	3804575	0.228136727
3562503804575	356250	3804575	0.255581012
3564753804575	356475	3804575	0.799485779
3565003804575	356500	3804575	0.871218041
3565253804575	356525	3804575	0.939941745
3565503804575	356550	3804575	1.001548682
3565753804575	356575	3804575	1.051398184
3566003804575	356600	3804575	1.08592117
3566253804575	356625	3804575	1.101483794
3566503804575	356650	3804575	1.096785007
3566753804575	356675	3804575	1.072341061
3567003804575	356700	3804575	1.030763343
3567253804575	356725	3804575	0.976046032
3567503804575	356750	3804575	0.912869123
3567753804575	356775	3804575	0.845958503
3568003804575	356800	3804575	0.779032641
3568253804575	356825	3804575	0.715193069
3568503804575	356850	3804575	0.655893559
3568753804575	356875	3804575	0.597455823
3569003804575	356900	3804575	0.550551691
3569253804575	356925	3804575	0.508051494
3569503804575	356950	3804575	0.468742793
3569753804575	356975	3804575	0.433310165
3570003804575	357000	3804575	0.401654097
3570253804575	357025	3804575	0.373128345
3570503804575	357050	3804575	0.34733556
3570753804575	357075	3804575	0.324222232
3571003804575	357100	3804575	0.303373275
3571253804575	357125	3804575	0.284791303
3571503804575	357150	3804575	0.266298987
3571753804575	357175	3804575	0.244659037
3572003804575	357200	3804575	0.227431413
3572253804575	357225	3804575	0.217571317
3572503804575	357250	3804575	0.210397066
3572753804575	357275	3804575	0.198894341
3573003804575	357300	3804575	0.188275543
3573253804575	357325	3804575	0.178831384
3573503804575	357350	3804575	0.170127343
3560003804600	356000	3804600	0.099037166
3560253804600	356025	3804600	0.108434244
3560503804600	356050	3804600	0.116182028
3560753804600	356075	3804600	0.124741484
3561003804600	356100	3804600	0.136781825
3561253804600	356125	3804600	0.151599215
3561503804600	356150	3804600	0.164147994
3561753804600	356175	3804600	0.179907671
3562003804600	356200	3804600	0.206890025
3562503804600	356250	3804600	0.251815516
3564753804600	356475	3804600	0.739119133
3565003804600	356500	3804600	0.795203032

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.002059136	0.001394415	0.001554944
0.002319724	0.001555972	0.001742042
0.007895784	0.004619208	0.005352782
0.00867265	0.005010241	0.005820017
0.009418984	0.005384755	0.006267281
0.010085349	0.005722042	0.00666856
0.010617332	0.005998398	0.006993629
0.010972161	0.006195628	0.007219016
0.011106681	0.006294497	0.007320709
0.011006814	0.006287337	0.007290213
0.010682629	0.006175132	0.007131009
0.010170633	0.005969406	0.006860357
0.009524184	0.005689127	0.006504183
0.008803039	0.005357485	0.006092313
0.008063827	0.004998871	0.005654786
0.007347478	0.004633269	0.005215374
0.006683854	0.004278384	0.004794374
0.006082849	0.00394353	0.0044016
0.005502541	0.003608823	0.004013134
0.005044235	0.003337215	0.00370048
0.004633012	0.003089064	0.003416728
0.004255533	0.002858018	0.003154077
0.003917327	0.002648702	0.002917224
0.003616667	0.002460997	0.002705629
0.003346994	0.002291328	0.002515014
0.003104287	0.002137513	0.002342619
0.002887742	0.00199937	0.002188114
0.002693296	0.001874503	0.002048611
0.002520551	0.001763074	0.001924305
0.002348116	0.001652658	0.001801089
0.00214678	0.00152419	0.001657055
0.001994365	0.001419078	0.001540265
0.001902351	0.001359144	0.001474327
0.001839708	0.001313466	0.001423974
0.001737431	0.001242634	0.001345734
0.001642355	0.001177673	0.001273716
0.001557924	0.001119872	0.001209628
0.001480332	0.001066545	0.00115046
0.000875744	0.000616128	0.000669874
0.000959726	0.000673949	0.000734017
0.001029797	0.000721088	0.000787238
0.001107496	0.000772968	0.000846129
0.001216595	0.000846163	0.0009287
0.001351303	0.000935991	0.001030404
0.001467272	0.001011086	0.0011166
0.001613475	0.001105196	0.001224738
0.001863364	0.00126682	0.001409324
0.002291588	0.001530659	0.001715267
0.007267969	0.004282955	0.004953137
0.007869167	0.004591011	0.005319247

# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.0950329

RESIDENTIAL RECEPTORS ONLY MAX: 7.0400

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3565253804600	356525	3804600	0.846911144
3565503804600	356550	3804600	0.891652551
3565753804600	356575	3804600	0.926425782
3566003804600	356600	3804600	0.947941248
3566253804600	356625	3804600	0.954669366
3566503804600	356650	3804600	0.946267474
3566753804600	356675	3804600	0.923366218
3567003804600	356700	3804600	0.888026516
3567253804600	356725	3804600	0.843272174
3567503804600	356750	3804600	0.792479818
3567753804600	356775	3804600	0.738825342
3568003804600	356800	3804600	0.684726631
3568253804600	356825	3804600	0.632760456
3568503804600	356850	3804600	0.584342148
3568753804600	356875	3804600	0.539431893
3569003804600	356900	3804600	0.494161406
3569253804600	356925	3804600	0.459202618
3569503804600	356950	3804600	0.427375186
3569753804600	356975	3804600	0.397110763
3570003804600	357000	3804600	0.369737058
3570253804600	357025	3804600	0.344921318
3570503804600	357050	3804600	0.322454127
3570753804600	357075	3804600	0.302020527
3571003804600	357100	3804600	0.283122444
3571253804600	357125	3804600	0.266576516
3571503804600	357150	3804600	0.251851785
3571753804600	357175	3804600	0.237609733
3572003804600	357200	3804600	0.223800469
3572253804600	357225	3804600	0.212152008
3572503804600	357250	3804600	0.199924288
3572753804600	357275	3804600	0.189324283
3573003804600	357300	3804600	0.180055534
3573253804600	357325	3804600	0.171354189
3573503804600	357350	3804600	0.163497939
3560003804625	356000	3804625	0.100593472
3560253804625	356025	3804625	0.109601594
3560503804625	356050	3804625	0.11735342
3560753804625	356075	3804625	0.125955511
3561003804625	356100	3804625	0.13792544
3561253804625	356125	3804625	0.152170448
3561503804625	356150	3804625	0.164819693
3564503804625	356450	3804625	0.63601666
3564753804625	356475	3804625	0.682085077
3565003804625	356500	3804625	0.725541605
3565253804625	356525	3804625	0.764665721
3565503804625	356550	3804625	0.797304687
3565753804625	356575	3804625	0.821202603
3566003804625	356600	3804625	0.834194299
3566253804625	356625	3804625	0.835540418
3566503804625	356650	3804625	0.825243542

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.008423098	0.004875641	0.005656677
0.008898387	0.005123763	0.005948684
0.009260687	0.005319759	0.006175768
0.0094713	0.005446421	0.006316385
0.009512571	0.005495474	0.006360514
0.009382121	0.005464283	0.00630575
0.009090479	0.005354899	0.006156316
0.008665928	0.005176734	0.005925595
0.008147669	0.004944413	0.005633129
0.007577719	0.004674944	0.005300524
0.006993508	0.004384789	0.004948171
0.006421303	0.00408704	0.00459151
0.005886277	0.003796381	0.004247617
0.005399313	0.003521643	0.003925915
0.004956117	0.003263564	0.003626576
0.004515827	0.003000547	0.003324085
0.004179676	0.002795735	0.003090112
0.003875541	0.002608193	0.002876988
0.003587867	0.002429012	0.002674308
0.003328769	0.002266385	0.002490999
0.003094761	0.002118541	0.002324917
0.002883718	0.001984387	0.002174548
0.002692529	0.001862128	0.002037782
0.002516517	0.001748781	0.001911238
0.002362754	0.001649459	0.001800423
0.002226178	0.001561042	0.00170183
0.002094471	0.001475452	0.001606409
0.001967461	0.001392305	0.001513786
0.001862574	0.001321052	0.001434781
0.001752303	0.001246421	0.001352115
0.001656691	0.001181805	0.001280416
0.00157322	0.00112529	0.001217662
0.001495179	0.001072113	0.001158642
0.001424818	0.001024084	0.00110532
0.000890048	0.000625441	0.000680702
0.000970837	0.000680694	0.000742265
0.001041114	0.000727747	0.000795538
0.001119457	0.000779752	0.000854724
0.001228328	0.000852308	0.0009368
0.001358501	0.000938382	0.001034483
0.001475938	0.001013859	0.001121289
0.006187848	0.003709849	0.004273098
0.006675502	0.003964822	0.004574905
0.007136101	0.004205487	0.004859272
0.007549078	0.004423046	0.005115109
0.007889655	0.004606337	0.005328463
0.008131863	0.004743453	0.005484707
0.008250589	0.004823018	0.005569692
0.008237947	0.00484077	0.005578596
0.008095627	0.004796016	0.005511261

# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.0950329

RESIDENTIAL RECEPTORS ONLY MAX: 7.0400

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3566753804625	356675	3804625	0.804105859
3567003804625	356700	3804625	0.773938926
3567253804625	356725	3804625	0.7365576
3567503804625	356750	3804625	0.694672511
3567753804625	356775	3804625	0.65104803
3568003804625	356800	3804625	0.607041078
3568253804625	356825	3804625	0.564607318
3568503804625	356850	3804625	0.524342424
3568753804625	356875	3804625	0.486930212
3569003804625	356900	3804625	0.451424317
3569253804625	356925	3804625	0.419589523
3569503804625	356950	3804625	0.39109421
3569753804625	356975	3804625	0.365096654
3570003804625	357000	3804625	0.341431249
3570253804625	357025	3804625	0.319730811
3570503804625	357050	3804625	0.299845011
3570753804625	357075	3804625	0.281712098
3571003804625	357100	3804625	0.265063969
3571253804625	357125	3804625	0.250434903
3571503804625	357150	3804625	0.236463202
3571753804625	357175	3804625	0.222874732
3572003804625	357200	3804625	0.21120472
3572253804625	357225	3804625	0.199939417
3572503804625	357250	3804625	0.189239319
3572753804625	357275	3804625	0.180270181
3573003804625	357300	3804625	0.17197024
3573253804625	357325	3804625	0.164438126
3573503804625	357350	3804625	0.156840327
3560003804650	356000	3804650	0.10394257
3560253804650	356025	3804650	0.110970948
3560503804650	356050	3804650	0.118661138
3560753804650	356075	3804650	0.127634705
3561003804650	356100	3804650	0.140338279
3561253804650	356125	3804650	0.154515322
3561503804650	356150	3804650	0.168090017
3564503804650	356450	3804650	0.591879481
3564753804650	356475	3804650	0.628766234
3565003804650	356500	3804650	0.662582489
3565253804650	356525	3804650	0.692046009
3565503804650	356550	3804650	0.715730304
3565753804650	356575	3804650	0.73183179
3566003804650	356600	3804650	0.739108604
3566253804650	356625	3804650	0.737143165
3566503804650	356650	3804650	0.72618894
3566753804650	356675	3804650	0.706935403
3567003804650	356700	3804650	0.681109384
3567253804650	356725	3804650	0.649519537
3567503804650	356750	3804650	0.614550703
3567753804650	356775	3804650	0.578674187
3568003804650	356800	3804650	0.542357221

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.007835322	0.00469204	0.005372986
0.007480773	0.004537536	0.005175444
0.007055798	0.004341092	0.004930167
0.006593235	0.004116625	0.004654813
0.006124479	0.003878805	0.004367251
0.005664053	0.003634996	0.004076124
0.005230904	0.003396381	0.003794442
0.004828765	0.003166906	0.003526159
0.004461637	0.002951153	0.003276216
0.004117995	0.00274433	0.003038464
0.003813034	0.002557424	0.002824986
0.003541991	0.002389118	0.002633759
0.003295821	0.002234877	0.002459335
0.003072617	0.002093996	0.00230062
0.002868594	0.001964499	0.00215514
0.002682235	0.001845562	0.002021915
0.002512857	0.001736917	0.001900429
0.002357937	0.001636992	0.00178887
0.002221935	0.00154913	0.001690894
0.002092812	0.001465	0.001597154
0.001968003	0.001382871	0.001505844
0.001860961	0.001312344	0.001427404
0.001758241	0.001244035	0.001351498
0.001661153	0.001178969	0.001279287
0.001579779	0.001124473	0.001218707
0.001504751	0.001073953	0.001162588
0.001436806	0.001028092	0.001111549
0.001367787	0.000982126	0.001060262
0.000920022	0.000645996	0.000703601
0.000983688	0.000688695	0.000751887
0.001053672	0.000735231	0.000804747
0.001135609	0.000789413	0.000866392
0.001251437	0.000866319	0.000953457
0.001381614	0.000951686	0.001050638
0.001507991	0.001032629	0.001143549
0.005736493	0.003461228	0.003978819
0.006123151	0.003666747	0.004220946
0.006477417	0.003855568	0.004442575
0.006783825	0.004021088	0.004635563
0.007026145	0.004155848	0.004790605
0.007183785	0.004250232	0.004895994
0.007242821	0.004297571	0.004943604
0.007199205	0.004295332	0.004930703
0.007057165	0.004244311	0.004858901
0.006826588	0.004147445	0.004732545
0.006528855	0.004013373	0.004562881
0.006175795	0.003845507	0.004354926
0.005795107	0.003656407	0.004124245
0.005414159	0.003459425	0.003886927
0.005037875	0.003257017	0.003645915



# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.0950329

RESIDENTIAL RECEPTORS ONLY MAX: 7.0400

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3568253804650	356825	3804650	0.507088367
3568503804650	356850	3804650	0.473290019
3568753804650	356875	3804650	0.441663188
3569003804650	356900	3804650	0.412267115
3569253804650	356925	3804650	0.384373055
3569503804650	356950	3804650	0.359285362
3569753804650	356975	3804650	0.336840245
3570003804650	357000	3804650	0.316243712
3570253804650	357025	3804650	0.297137802
3570503804650	357050	3804650	0.279532194
3570753804650	357075	3804650	0.263451172
3571003804650	357100	3804650	0.248642139
3571253804650	357125	3804650	0.235220724
3571503804650	357150	3804650	0.222375563
3571753804650	357175	3804650	0.210053715
3572003804650	357200	3804650	0.199364508
3572253804650	357225	3804650	0.189392697
3572503804650	357250	3804650	0.18010736
3572753804650	357275	3804650	0.171975539
3573003804650	357300	3804650	0.164492335
3573253804650	357325	3804650	0.158003805
3573503804650	357350	3804650	0.14914844
3560003804675	356000	3804675	0.105485368
3560253804675	356025	3804675	0.112568016
3560503804675	356050	3804675	0.119794405
3560753804675	356075	3804675	0.129308901
3564253804675	356425	3804675	0.518948248
3564503804675	356450	3804675	0.550194069
3564753804675	356475	3804675	0.57959665
3565003804675	356500	3804675	0.606138441
3565253804675	356525	3804675	0.628023305
3565503804675	356550	3804675	0.645071403
3565753804675	356575	3804675	0.655652514
3566003804675	356600	3804675	0.659075743
3566253804675	356625	3804675	0.655142552
3566503804675	356650	3804675	0.644167338
3566753804675	356675	3804675	0.626702626
3567003804675	356700	3804675	0.6044197
3567253804675	356725	3804675	0.577755169
3567503804675	356750	3804675	0.54842755
3567753804675	356775	3804675	0.518373446
3568003804675	356800	3804675	0.487906652
3568253804675	356825	3804675	0.45810922
3568503804675	356850	3804675	0.429503864
3568753804675	356875	3804675	0.402574198
3569003804675	356900	3804675	0.377337944
3569253804675	356925	3804675	0.353389897
3569503804675	356950	3804675	0.331264776
3569753804675	356975	3804675	0.311562482
3570003804675	357000	3804675	0.293621499

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.004680657	0.003057721	0.003411135
0.0043452	0.002864308	0.003185413
0.004036528	0.002681325	0.002973631
0.00375332	0.002509653	0.00277641
0.003487191	0.00234551	0.002588987
0.0032495	0.002196997	0.00242037
0.003037805	0.00206355	0.00226957
0.002844203	0.001940712	0.002131212
0.002665153	0.00182648	0.002002936
0.002500558	0.001721015	0.001884829
0.00235063	0.001624532	0.001777009
0.002212946	0.001535562	0.001677693
0.00208846	0.001454835	0.001587702
0.001969859	0.001377383	0.001501489
0.001856662	0.0013029	0.001418683
0.001758597	0.001238253	0.001346837
0.001667446	0.001177844	0.00127973
0.001582902	0.001121479	0.001217145
0.001508988	0.001072112	0.001162227
0.001441129	0.001026627	0.001111682
0.001382265	0.000987263	0.001067728
0.001300674	0.000934224	0.001008447
0.000934284	0.000655168	0.000714335
0.000998626	0.0006981	0.000762977
0.001064776	0.000741595	0.000812744
0.001151853	0.000798998	0.000877996
0.004986497	0.003050939	0.003495055
0.005310802	0.003226063	0.003700759
0.005616152	0.003390986	0.003893983
0.005890914	0.003540367	0.004068203
0.006114756	0.00366471	0.004211756
0.006285273	0.003763112	0.004323492
0.006384338	0.003826813	0.004392804
0.006404551	0.003851957	0.004415158
0.006344204	0.003837269	0.004389239
0.006208068	0.003783961	0.00431703
0.006003847	0.003694444	0.004202068
0.005751534	0.003577351	0.004055232
0.005457842	0.003434336	0.003879187
0.005142617	0.003274486	0.003685107
0.004826876	0.003108386	0.003485715
0.004513968	0.00293763	0.003282978
0.004214345	0.00276849	0.003084099
0.003932044	0.002604189	0.002892664
0.003670453	0.002447898	0.002712006
0.003428389	0.002300143	0.002542373
0.003200809	0.002158904	0.002381224
0.002991953	0.00202766	0.002232287
0.002806875	0.001910286	0.002099654
0.002638779	0.001803085	0.001979004

# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.0950329

RESIDENTIAL RECEPTORS ONLY MAX: 7.0400

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3570253804675	357025	3804675	0.276768886
3570503804675	357050	3804675	0.261220386
3570753804675	357075	3804675	0.246893375
3571003804675	357100	3804675	0.233586184
3571253804675	357125	3804675	0.221286505
3571503804675	357150	3804675	0.209736146
3571753804675	357175	3804675	0.198978221
3572003804675	357200	3804675	0.189220366
3572253804675	357225	3804675	0.180185668
3572503804675	357250	3804675	0.171795285
3572753804675	357275	3804675	0.164215911
3573003804675	357300	3804675	0.157325607
3573253804675	357325	3804675	0.151365286
3573503804675	357350	3804675	0.145291028
3560003804700	356000	3804700	0.107138864
3560253804700	356025	3804700	0.114017057
3560503804700	356050	3804700	0.121305374
3561003804700	356100	3804700	0.152281336
3564253804700	356425	3804700	0.485650564
3564503804700	356450	3804700	0.511116756
3564753804700	356475	3804700	0.53468782
3565003804700	356500	3804700	0.555400379
3565253804700	356525	3804700	0.572032171
3565503804700	356550	3804700	0.58391283
3565753804700	356575	3804700	0.590319576
3566003804700	356600	3804700	0.591021085
3566253804700	356625	3804700	0.585958125
3566503804700	356650	3804700	0.57527511
3566753804700	356675	3804700	0.559660191
3567003804700	356700	3804700	0.540444668
3567253804700	356725	3804700	0.517785039
3567503804700	356750	3804700	0.492949816
3567753804700	356775	3804700	0.467411991
3568003804700	356800	3804700	0.441552528
3568253804700	356825	3804700	0.416139782
3568503804700	356850	3804700	0.391735728
3568753804700	356875	3804700	0.368564759
3569003804700	356900	3804700	0.346809136
3569253804700	356925	3804700	0.326326122
3569503804700	356950	3804700	0.306666921
3569753804700	356975	3804700	0.289050464
3570003804700	357000	3804700	0.272883948
3570253804700	357025	3804700	0.257976223
3570503804700	357050	3804700	0.244578023
3570753804700	357075	3804700	0.231810217
3571003804700	357100	3804700	0.21984165
3571253804700	357125	3804700	0.208713154
3571503804700	357150	3804700	0.198407511
3571753804700	357175	3804700	0.18897174
3572003804700	357200	3804700	0.180087946

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.002481277	0.001702149	0.001865731
0.002336341	0.001608866	0.001761291
0.002203017	0.001522786	0.001665142
0.002079511	0.001442725	0.001575853
0.001965641	0.001368635	0.001493297
0.001859041	0.001298946	0.00141578
0.001760087	0.001233937	0.001343488
0.001670562	0.001174905	0.001277916
0.001587889	0.001120184	0.001217124
0.001511391	0.001069276	0.001160583
0.001442431	0.001023259	0.001109446
0.001379857	0.00098139	0.001062927
0.00132572	0.00094524	0.00102257
0.001270188	0.000908595	0.000981635
0.000949588	0.000664975	0.000725845
0.001012407	0.000706515	0.000773075
0.001079368	0.00075029	0.000823206
0.001362246	0.000937753	0.001035144
0.004650931	0.002861606	0.003271983
0.004913128	0.003005118	0.003439863
0.005155465	0.003138215	0.003594949
0.005367294	0.003255701	0.003731062
0.005534778	0.003351133	0.003840247
0.005650326	0.003420923	0.003918174
0.00570608	0.003461078	0.003960142
0.005699649	0.003470315	0.003964618
0.005631049	0.003448018	0.00393117
0.005502929	0.003394595	0.003860673
0.005323961	0.003313384	0.003757621
0.005109699	0.00321137	0.003630655
0.00486341	0.003088842	0.003480569
0.004599521	0.002952506	0.003315793
0.004333844	0.002810491	0.003145883
0.004070407	0.002664816	0.002973398
0.003816536	0.002519958	0.002803387
0.003577009	0.002379312	0.002639716
0.003352916	0.002244455	0.002484019
0.003145022	0.002116778	0.002337553
0.002951083	0.001995721	0.002199555
0.002766148	0.001878887	0.002067021
0.002601206	0.001773747	0.001948289
0.002450265	0.001676956	0.001839408
0.002311391	0.001587509	0.001739121
0.002186736	0.001507018	0.001649039
0.002068186	0.001430188	0.001563293
0.001957332	0.001358094	0.001482894
0.001854456	0.001290983	0.001408173
0.00175936	0.001228764	0.001339019
0.001672543	0.001171756	0.001275592
0.001591009	0.001117997	0.001215898

# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.0950329

RESIDENTIAL RECEPTORS ONLY MAX: 7.0400

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3572253804700	357225	3804700	0.171769984
3572503804700	357250	3804700	0.164027627
3572753804700	357275	3804700	0.156917653
3573003804700	357300	3804700	0.150455866
3573253804700	357325	3804700	0.144805404
3573503804700	357350	3804700	0.139696939
3560003804725	356000	3804725	0.108974164
3560253804725	356025	3804725	0.115269131
3560503804725	356050	3804725	0.123181963
3564003804725	356400	3804725	0.432493271
3564253804725	356425	3804725	0.454611554
3564503804725	356450	3804725	0.475308749
3564753804725	356475	3804725	0.493703294
3565003804725	356500	3804725	0.509725408
3565253804725	356525	3804725	0.52210422
3565503804725	356550	3804725	0.53031997
3565753804725	356575	3804725	0.533944293
3566003804725	356600	3804725	0.532947879
3566253804725	356625	3804725	0.527282198
3566503804725	356650	3804725	0.517178922
3566753804725	356675	3804725	0.503237484
3567003804725	356700	3804725	0.48628791
3567253804725	356725	3804725	0.466843697
3567503804725	356750	3804725	0.445676726
3567753804725	356775	3804725	0.423945772
3568003804725	356800	3804725	0.401793185
3568253804725	356825	3804725	0.379954011
3568503804725	356850	3804725	0.358990735
3568753804725	356875	3804725	0.3388477
3569003804725	356900	3804725	0.319898274
3569253804725	356925	3804725	0.302093079
3569503804725	356950	3804725	0.285319545
3569753804725	356975	3804725	0.269647517
3570003804725	357000	3804725	0.253319027
3570253804725	357025	3804725	0.239942183
3570503804725	357050	3804725	0.229314242
3570753804725	357075	3804725	0.218012677
3571003804725	357100	3804725	0.207408093
3571253804725	357125	3804725	0.197353782
3571503804725	357150	3804725	0.188103489
3571753804725	357175	3804725	0.179656577
3572003804725	357200	3804725	0.171423379
3572253804725	357225	3804725	0.163886014
3572503804725	357250	3804725	0.156748793
3572753804725	357275	3804725	0.15007468
3573003804725	357300	3804725	0.143981708
3573253804725	357325	3804725	0.138637619
3573503804725	357350	3804725	0.134113384
3560003804750	356000	3804750	0.113368398
3560253804750	356025	3804750	0.119226221

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.001514893	0.001067588	0.001159946
0.001444252	0.001020609	0.001107788
0.001379544	0.000977424	0.001059836
0.001320863	0.000938147	0.001016196
0.001269528	0.000903834	0.000978013
0.001223114	0.000872854	0.000943404
0.000966598	0.000675873	0.000738563
0.001024482	0.000713675	0.000781817
0.001097295	0.000761222	0.000836086
0.004113048	0.002559432	0.002917705
0.004338985	0.002684665	0.003063908
0.004550315	0.002801983	0.003200476
0.004737164	0.00290672	0.003321663
0.004898912	0.002998377	0.003427073
0.005021284	0.003070243	0.003508409
0.005098627	0.003119451	0.003562323
0.005126308	0.003143644	0.003586028
0.005104178	0.003142603	0.003579301
0.005032495	0.003115803	0.003541751
0.004914447	0.003064185	0.003474922
0.004757452	0.00299078	0.00338265
0.004571306	0.002899856	0.003270328
0.004362526	0.002793903	0.003141234
0.004139925	0.002676963	0.003000434
0.003915851	0.002555466	0.002855475
0.003691849	0.002430092	0.002707414
0.003474969	0.002305108	0.002561019
0.003270193	0.00218391	0.002420205
0.0030762	0.002066385	0.002284611
0.002895784	0.001954915	0.002156883
0.00272773	0.001849495	0.002036752
0.002570416	0.001749648	0.001923557
0.002424101	0.001655595	0.001817839
0.002272202	0.001558801	0.001707693
0.002148058	0.001477588	0.001617557
0.002049353	0.001413365	0.001546093
0.001944608	0.001345559	0.001470131
0.001846523	0.001281604	0.001398875
0.001753724	0.001220905	0.001331315
0.001668456	0.001165016	0.001269199
0.001590714	0.001113958	0.001212432
0.001515221	0.001064094	0.001157106
0.001446234	0.001018418	0.001106387
0.001381106	0.00097509	0.001058347
0.001320361	0.000934538	0.001013337
0.001265021	0.000897478	0.000972213
0.001216456	0.000864996	0.000936134
0.001175314	0.000837597	0.000905474
0.001006515	0.000702544	0.000768688
0.001060752	0.000737553	0.000808932

# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

FOR CHRONIC CALCS

MAX: 0.0950329

RESIDENTIAL RECEPTORS ONLY MAX: 7.0400

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3560503804750	356050	3804750	0.127254057
3564003804750	356400	3804750	0.406899194
3564253804750	356425	3804750	0.42521769
3564503804750	356450	3804750	0.442014516
3564753804750	356475	3804750	0.456682203
3565003804750	356500	3804750	0.468875084
3565253804750	356525	3804750	0.477944133
3565503804750	356550	3804750	0.483477358
3565753804750	356575	3804750	0.485220394
3566003804750	356600	3804750	0.483191005
3566253804750	356625	3804750	0.477317971
3566503804750	356650	3804750	0.467938222
3566753804750	356675	3804750	0.45546112
3567003804750	356700	3804750	0.440513144
3567253804750	356725	3804750	0.423619115
3567503804750	356750	3804750	0.405361797
3567753804750	356775	3804750	0.386620293
3568003804750	356800	3804750	0.367371917
3568253804750	356825	3804750	0.348405083
3568503804750	356850	3804750	0.330157026
3568753804750	356875	3804750	0.312598877
3569003804750	356900	3804750	0.295956192
3569253804750	356925	3804750	0.280274995
3569503804750	356950	3804750	0.265537772
3569753804750	356975	3804750	0.251734276
3570003804750	357000	3804750	0.238566981
3570253804750	357025	3804750	0.226577038
3570503804750	357050	3804750	0.215757945
3570753804750	357075	3804750	0.205461478
3571003804750	357100	3804750	0.19576653
3571253804750	357125	3804750	0.186779598
3571503804750	357150	3804750	0.178413898
3571753804750	357175	3804750	0.169747687
3572003804750	357200	3804750	0.161877407
3572253804750	357225	3804750	0.156518211
3572503804750	357250	3804750	0.149935975
3572753804750	357275	3804750	0.143753113
3573003804750	357300	3804750	0.13802743
3573253804750	357325	3804750	0.132792897
3573503804750	357350	3804750	0.12850721
3570003804150	357000	3804150	2.168083385
3570503804150	357050	3804150	1.280214477
3571003804150	357100	3804150	0.910140417
3573503804250	357350	3804250	0.18461782
3573003804300	357300	3804300	0.189454646
3573503804300	357350	3804300	0.169136171
3573503804350	357350	3804350	0.165024155
3568503804400	356850	3804400	1.976549764
3568503804450	356850	3804450	1.346405728
3569003804450	356900	3804450	1.023396932

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.001134878	0.000785681	0.000863935
0.003858516	0.002412631	0.002745605
0.004044328	0.002516817	0.002866825
0.004214323	0.002612591	0.002977736
0.004361697	0.002696713	0.003074466
0.00448291	0.00276717	0.003154738
0.004570614	0.002820543	0.003214396
0.004620452	0.002854552	0.003250692
0.004629738	0.002867776	0.003261993
0.004598811	0.00286023	0.003248427
0.004527628	0.002831271	0.003209463
0.004420355	0.002782587	0.00314722
0.00428205	0.002716155	0.003064467
0.004120103	0.002635249	0.002965141
0.003940727	0.002542528	0.0028527
0.003750587	0.002441051	0.002730952
0.003558867	0.002335729	0.002605729
0.003365577	0.0022263	0.002476768
0.003178287	0.002117364	0.002349446
0.003000827	0.002011544	0.002226664
0.002832396	0.001908844	0.002108293
0.002674459	0.001810742	0.001995982
0.002526932	0.001717717	0.001890068
0.00238913	0.001629834	0.001790512
0.002260651	0.00154719	0.00169728
0.002138429	0.001468112	0.001608409
0.002027366	0.001395945	0.001527524
0.001927244	0.001330736	0.001454684
0.00183208	0.001268607	0.001385392
0.001742607	0.001210048	0.001320174
0.001659745	0.001155734	0.001259791
0.001582741	0.001105146	0.001203582
0.001503287	0.001052595	0.00114533
0.001431269	0.001004867	0.001092348
0.001381825	0.000972541	0.001056405
0.001321773	0.000932575	0.001012062
0.001265525	0.000894984	0.000970406
0.001213524	0.000860142	0.000931781
0.001166011	0.000828282	0.000896447
0.001127047	0.000802277	0.000867442
0.017134173	0.01424277	0.015002073
0.010384577	0.008315135	0.008833121
0.007482128	0.005874833	0.006253983
0.001595983	0.001156037	0.001258844
0.001653323	0.00117866	0.001281772
0.001472316	0.001054641	0.001146296
0.001449299	0.001025663	0.001111037
0.01888027	0.011649976	0.013055573
0.012778456	0.007977372	0.008947264
0.009458319	0.006162135	0.006840298

# Wiley Canyon Construction Health Risk Assessment - Mitigated

Residential Health Risk Assessment Results Summary

**RESIDENTIAL RECEPTORS ONLY**                      MAX:                      7.0400

Unique Identifier	X (UTM)	Y (UTM)	Total Risk
3569503804450	356950	3804450	0.697452891
3571503804450	357150	3804450	0.310549232
3573503804450	357350	3804450	0.186437525

**FOR CHRONIC CALCS**

MAX:                      0.0950329

Overlapping Phases - Maximum GLC		
2023	2024	2025
0.006316652	0.004258772	0.004677809
0.00275377	0.001925233	0.002090249
0.001640595	0.001162708	0.00125067

**Wiley Canyon Construction Health Risk Assessment - Mitigated**

Maximum Individual Non-Cancer Impact Calculations - Sensitive Receptors (Maximum Impacted Senior Residential Receptor) (IMPACT AT ALL OTHER LOCATIONS ON THE PROJECT SITE WOULD BE LESS THAN SHOWN)

Maximum Non-cancer Chronic Hazards / Toxicological Endpoints\*

Receptor Group	Pollutant	CREL <sup>1</sup>	CONC	WFrac	CONC <sub>WF</sub>	HI		ALIM	BN	CVS	DEV	ENDC	EYE	HEM	IMMUN	KIDN	NS	REPRO	RESP	SK	
<b>Project:</b>																					
MEI - Max	DPM	5.00E+00	9.50E-02	1.00E+00	9.50E-02	1.90E-02		-	-	-	-	-	-	-	-	-	-	-	1.90E-02	-	
							<b>Total Risk</b>				-								-	0.019	
							<b>Threshold</b>				1.00			1.00					1.00	1.00	
							<b>Over?</b>				NO			NO					NO	NO	

Notes:

- California Air Resources Board, "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values," "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs," "OEHHA/ARB Approved Acute Reference Exposure Levels and Target Organs," and "OEHHA/ARB Approved 8-Hour Reference Exposure Levels and Target Organs," <http://www.arb.ca.gov/toxics/healthval/healthval.htm>. Tables last updated: May 8, 2018. Downloaded: 08/14/18.

Source: ESA, 2020

Where:

CONC<sub>WF</sub> Pollutant Concentration (µg/m<sup>3</sup>) multiplied by the weight fraction  
 CREL Chronic Reference Exposure Level  
 HI Hazard Index  
 MEI Maximally Exposed Individual  
 WFrac Weight fraction of speciated component

\* Key to Toxicological Endpoints

ALIM	Alimentary Tract	EYE	Eye	NS	Nervous System
BN	Bone	HEM	Hematologic System	REPRO	Reproductive System
CVS	Cardiovascular System	IMMUN	Immune System	RESP	Respiratory System
DEV	Developmental System	KIDN	Kidney	SK	Skin
ENDC	Endocrine System				

Exhibit D  
**Freeway Health Risk  
Assessment**





**Freeway Traffic**

Annual Growth Rate:	0.35%
Traffic Data Year:	2019
Analysis Start Year:	2024
Analysis End Year:	2025
Averaging Period:	2 years
Analysis Start Year:	2026
Analysis End Year:	2039
Averaging Period:	14 years
Analysis Start Year:	2040
Analysis End Year:	2053
Averaging Period:	14 years

Note: The annual growth rate assumption is based on the Los Angeles County 2010 Congestion Management Plan for Regional Statistical Area 8, which includes Santa Clarita.

**I-5 Northbound**

Time	Length (mi)	2019 Auto Flow (vehicle/hr)	2024 Auto Flow (vehicle/hr)	2024-2025 Average Auto Flow (vehicle/hr)	2026-2039 Average Auto Flow (vehicle/hr)	2040-2053 Average Auto Flow (vehicle/hr)	2019 Truck Flow (vehicle/hr)	2024 Truck Flow (vehicle/hr)	2024-2025 Average Truck Flow (vehicle/hr)	2026-2039 Average Truck Flow (vehicle/hr)	2040-2053 Average Truck Flow (vehicle/hr)	Auto Scalar	Truck scalar
0:00	1.190	1,706	1,736	1739	1789	1878	60	61	61	63	66	0.294	0.250
1:00	1.190	1,164	1,185	1187	1220	1282	39	40	40	41	43	0.201	0.163
2:00	1.190	970	987	989	1017	1068	30	31	31	31	33	0.167	0.125
3:00	1.190	1,001	1,019	1020	1049	1102	33	34	34	35	36	0.173	0.138
4:00	1.190	1,709	1,739	1742	1792	1882	60	61	61	63	66	0.295	0.250
5:00	1.190	3,421	3,481	3487	3587	3766	135	137	138	142	149	0.590	0.563
6:00	1.190	4,590	4,671	4679	4812	5053	189	192	193	198	208	0.792	0.788
7:00	1.190	5,150	5,241	5250	5399	5670	210	214	214	220	231	0.889	0.875
8:00	1.190	5,281	5,374	5383	5537	5814	219	223	223	230	241	0.911	0.913
9:00	1.190	5,320	5,414	5423	5577	5857	222	226	226	233	244	0.918	0.925
10:00	1.190	5,423	5,519	5528	5685	5970	225	229	229	236	248	0.936	0.938
11:00	1.190	5,548	5,646	5656	5817	6108	232	236	237	243	255	0.958	0.967
12:00	1.190	5,688	5,788	5798	5963	6262	237	241	242	248	261	0.982	0.988
13:00	1.190	5,753	5,854	5865	6031	6334	239	243	244	251	263	0.993	0.996
14:00	1.190	5,794	5,896	5906	6074	6379	240	244	245	252	264	1.000	1.000
15:00	1.190	5,752	5,853	5864	6030	6333	240	244	245	252	264	0.993	1.000
16:00	1.190	5,751	5,852	5863	6029	6332	239	243	244	251	263	0.993	0.996
17:00	1.190	5,772	5,874	5884	6051	6355	237	241	242	248	261	0.996	0.988
18:00	1.190	5,539	5,637	5646	5807	6098	232	236	237	243	255	0.956	0.967
19:00	1.190	5,060	5,149	5158	5305	5571	208	212	212	218	229	0.873	0.867
20:00	1.190	4,582	4,663	4671	4804	5045	187	190	191	196	206	0.791	0.779
21:00	1.190	4,281	4,356	4364	4488	4713	173	176	176	181	190	0.739	0.721
22:00	1.190	3,638	3,702	3709	3814	4005	145	148	148	152	160	0.628	0.604
23:00	1.190	2,589	2,635	2639	2714	2850	99	101	101	104	109	0.447	0.413
length	1914.5	5,794					0.039						
road width	25 m												
AADT		101,482	103,271	103,450	106,391	111,727	4,130	4,203	4,214	4,331	4,545		

I-5 Southbound

Time	Length (mi)	2019 Auto Flow (vehicle/hr)	2024 Auto Flow (vehicle/hr)	2024-2025 Average Auto Flow (vehicle/hr)	2026-2039 Average Auto Flow (vehicle/hr)	2040-2053 Average Auto Flow (vehicle/hr)	2019 Truck Flow (vehicle/hr)	2024 Truck Flow (vehicle/hr)	2024-2025 Average Truck Flow (vehicle/hr)	2026-2039 Average Truck Flow (vehicle/hr)	2040-2053 Average Truck Flow (vehicle/hr)	Auto Scalar	Truck scalar
0:00	1.199	1,443	1,468	1471	1513	1589	119	121	121	125	131	0.231	0.524
1:00	1.199	1,137	1,157	1159	1192	1252	117	119	119	123	129	0.182	0.515
2:00	1.199	1,002	1,020	1021	1050	1103	125	127	127	131	138	0.160	0.551
3:00	1.199	1,099	1,118	1120	1152	1210	158	161	161	166	174	0.176	0.696
4:00	1.199	1,867	1,900	1903	1957	2055	209	213	213	219	230	0.299	0.921
5:00	1.199	3,837	3,905	3911	4023	4224	227	231	231	238	250	0.614	1.000
6:00	1.199	4,916	5,003	5011	5154	5412	186	189	190	195	205	0.787	0.819
7:00	1.199	4,927	5,014	5023	5165	5424	165	168	168	173	182	0.789	0.727
8:00	1.199	5,051	5,140	5149	5295	5561	175	178	178	183	193	0.809	0.771
9:00	1.199	5,150	5,241	5250	5399	5670	194	197	198	203	214	0.825	0.855
10:00	1.199	5,245	5,337	5347	5499	5775	203	207	207	213	223	0.840	0.894
11:00	1.199	5,303	5,396	5406	5560	5838	201	205	205	211	221	0.849	0.885
12:00	1.199	5,341	5,435	5445	5600	5880	191	194	195	200	210	0.855	0.841
13:00	1.199	5,445	5,541	5551	5709	5995	168	171	171	176	185	0.872	0.740
14:00	1.199	5,821	5,924	5934	6103	6409	132	134	135	138	145	0.932	0.581
15:00	1.199	6,035	6,141	6152	6327	6644	106	108	108	111	117	0.966	0.467
16:00	1.199	6,246	6,356	6367	6548	6877	89	91	91	93	98	1.000	0.392
17:00	1.199	6,224	6,334	6345	6525	6852	79	80	81	83	87	0.996	0.348
18:00	1.199	5,377	5,472	5481	5637	5920	118	120	120	124	130	0.861	0.520
19:00	1.199	4,458	4,537	25	4674	4908	157	160	160	165	173	0.714	0.692
20:00	1.199	3,896	3,965	3972	4085	4289	164	167	167	172	181	0.624	0.722
21:00	1.199	3,413	3,473	3479	3578	3758	153	156	156	160	168	0.546	0.674
22:00	1.199	2,608	2,654	2659	2734	2871	144	147	147	151	159	0.418	0.634
23:00	1.199	1,924	1,958	1961	2017	2118	134	136	137	140	148	0.308	0.590
length	1929.5	6,246											
road width	25												
AADT		97,765	99,489	95,142	102,496	107,634	3,714	3,780	3,786	3,893	4,091		

NB Off Ramp

Time	Length (mi)	2019 Auto Flow (vehicle/hr)	2024 Auto Flow (vehicle/hr)	2024-2025 Average Auto Flow (vehicle/hr)	2026-2039 Average Auto Flow (vehicle/hr)	2040-2053 Average Auto Flow (vehicle/hr)	2019 Truck Flow (vehicle/hr)	2024 Truck Flow (vehicle/hr)	2024-2025 Average Truck Flow (vehicle/hr)	2026-2039 Average Truck Flow (vehicle/hr)	2040-2053 Average Truck Flow (vehicle/hr)	Auto Scalar	Truck scalar
0:00	0.189	34	35	35	36	37	1	1	1	1	1	0.294	0.524
1:00	0.189	23	24	24	24	26	1	1	1	1	1	0.201	0.515
2:00	0.189	19	20	20	20	21	1	1	1	1	1	0.167	0.551
3:00	0.189	20	20	20	21	22	1	1	1	1	1	0.173	0.696
4:00	0.189	34	35	35	36	38	1	1	1	1	1	0.295	0.921
5:00	0.189	68	70	70	72	75	3	3	3	3	3	0.590	1.000
6:00	0.189	92	93	93	96	101	4	4	4	4	4	0.792	0.819
7:00	0.189	103	105	105	108	113	4	4	4	4	4	0.889	0.727
8:00	0.189	105	107	107	111	116	4	4	4	4	4	0.911	0.771
9:00	0.189	106	108	108	111	117	4	4	4	4	4	0.918	0.855
10:00	0.189	108	110	110	114	119	4	4	4	4	4	0.936	0.894
11:00	0.189	111	113	113	116	122	5	5	5	5	6	0.958	0.885
12:00	0.189	114	116	116	119	125	5	5	5	5	6	0.982	0.841
13:00	0.189	115	117	117	120	126	5	5	5	5	6	0.993	0.740
14:00	0.189	116	118	118	121	127	5	5	5	5	6	1.000	0.581
15:00	0.189	115	117	117	120	126	5	5	5	5	6	0.993	0.467
16:00	0.189	115	117	117	120	126	5	5	5	5	6	0.993	0.392
17:00	0.189	115	117	117	121	127	5	5	5	5	6	0.996	0.348
18:00	0.189	111	113	113	116	122	5	5	5	5	6	0.956	0.520
19:00	0.189	101	103	103	106	111	4	4	4	4	4	0.873	0.692
20:00	0.189	91	93	93	96	101	4	4	4	4	4	0.791	0.722
21:00	0.189	85	87	87	90	94	4	4	4	4	4	0.739	0.674
22:00	0.189	73	74	74	76	80	3	3	3	3	3	0.628	0.634
23:00	0.189	52	53	53	54	57	2	2	2	2	2	0.447	0.590
length	304.8	116											
road width	8												
AADT		2,026	2,065	2,065	2,124	2,229	85	85	85	85	93		

**NB On Ramp**

Time	Length (mi)	2019 Auto Flow (vehicle/hr)	2024 Auto Flow (vehicle/hr)	2024-2025 Average Auto Flow (vehicle/hr)	2026-2039 Average Auto Flow (vehicle/hr)	2040-2053 Average Auto Flow (vehicle/hr)	2019 Truck Flow (vehicle/hr)	2024 Truck Flow (vehicle/hr)	2024-2025 Average Truck Flow (vehicle/hr)	2026-2039 Average Truck Flow (vehicle/hr)	2040-2053 Average Truck Flow (vehicle/hr)	Auto Scalar	Truck scalar
0:00	0.167	41	41	41	43	45	2	2	2	2	2	0.294	0.250
1:00	0.167	28	28	28	29	31	1	1	1	1	1	0.201	0.163
2:00	0.167	23	24	24	24	25	1	1	1	1	1	0.167	0.125
3:00	0.167	24	24	24	25	26	1	1	1	1	1	0.173	0.138
4:00	0.167	41	41	42	43	45	2	2	2	2	2	0.295	0.250
5:00	0.167	82	83	83	85	90	3	3	3	3	3	0.590	0.563
6:00	0.167	109	111	112	115	120	5	5	5	5	6	0.792	0.788
7:00	0.167	123	125	125	129	135	5	5	5	5	6	0.889	0.875
8:00	0.167	126	128	128	132	139	5	5	5	5	6	0.911	0.913
9:00	0.167	127	129	129	133	140	5	5	5	5	6	0.918	0.925
10:00	0.167	129	132	132	136	142	5	5	5	5	6	0.936	0.938
11:00	0.167	132	135	135	139	146	6	6	6	6	7	0.958	0.967
12:00	0.167	136	138	138	142	149	6	6	6	6	7	0.982	0.988
13:00	0.167	137	140	140	144	151	6	6	6	6	7	0.993	0.996
14:00	0.167	138	141	141	145	152	6	6	6	6	7	1.000	1.000
15:00	0.167	137	140	140	144	151	6	6	6	6	7	0.993	1.000
16:00	0.167	137	140	140	144	151	6	6	6	6	7	0.993	0.996
17:00	0.167	138	140	140	144	151	6	6	6	6	7	0.996	0.988
18:00	0.167	132	134	135	138	145	6	6	6	6	7	0.956	0.967
19:00	0.167	121	123	25	126	133	5	5	5	5	6	0.873	0.867
20:00	0.167	109	111	111	115	120	5	5	5	5	6	0.791	0.779
21:00	0.167	102	104	104	107	112	4	4	4	4	4	0.739	0.721
22:00	0.167	87	88	88	91	95	4	4	4	4	4	0.628	0.604
23:00	0.167	62	63	63	65	68	3	3	3	3	3	0.447	0.413
length	268.1	138											
road width	8												
AADT		2,419	2,463	2,368	2,538	2,662	104	104	104	104	119		

**SB Off Ramp**

Time	Length (mi)	2019 Auto Flow (vehicle/hr)	2024 Auto Flow (vehicle/hr)	2024-2025 Average Auto Flow (vehicle/hr)	2026-2039 Average Auto Flow (vehicle/hr)	2040-2053 Average Auto Flow (vehicle/hr)	2019 Truck Flow (vehicle/hr)	2024 Truck Flow (vehicle/hr)	2024-2025 Average Truck Flow (vehicle/hr)	2026-2039 Average Truck Flow (vehicle/hr)	2040-2053 Average Truck Flow (vehicle/hr)	Auto Scalar	Truck scalar
0:00	0.214	28	29	29	29	31	1	1	1	1	1	0.231	0.004
1:00	0.214	22	22	23	23	24	1	1	1	1	1	0.182	0.004
2:00	0.214	19	20	20	20	21	1	1	1	1	1	0.160	0.004
3:00	0.214	21	22	22	22	24	1	1	1	1	1	0.176	0.004
4:00	0.214	36	37	37	38	40	2	2	2	2	2	0.299	0.009
5:00	0.214	75	76	76	78	82	3	3	3	3	3	0.614	0.013
6:00	0.214	96	97	97	100	105	4	4	4	4	4	0.787	0.018
7:00	0.214	96	97	98	100	105	4	4	4	4	4	0.789	0.018
8:00	0.214	98	100	100	103	108	4	4	4	4	4	0.809	0.018
9:00	0.214	100	102	102	105	110	4	4	4	4	4	0.825	0.018
10:00	0.214	102	104	104	107	112	4	4	4	4	4	0.840	0.018
11:00	0.214	103	105	105	108	114	4	4	4	4	4	0.849	0.018
12:00	0.214	104	106	106	109	114	4	4	4	4	4	0.855	0.018
13:00	0.214	106	108	108	111	117	4	4	4	4	4	0.872	0.018
14:00	0.214	113	115	115	119	125	5	5	5	5	6	0.932	0.022
15:00	0.214	117	119	120	123	129	5	5	5	5	6	0.966	0.022
16:00	0.214	121	124	124	127	134	5	5	5	5	6	1.000	0.022
17:00	0.214	121	123	123	127	133	5	5	5	5	6	0.996	0.022
18:00	0.214	105	106	107	110	115	4	4	4	4	4	0.861	0.018
19:00	0.214	87	88	88	91	95	4	4	4	4	4	0.714	0.018
20:00	0.214	76	77	77	79	83	3	3	3	3	3	0.624	0.013
21:00	0.214	66	68	68	70	73	3	3	3	3	3	0.546	0.013
22:00	0.214	51	52	52	53	56	2	2	2	2	2	0.418	0.009
23:00	0.214	37	38	38	39	41	2	2	2	2	2	0.308	0.009
length	345.1	121											
road width	8												
AADT		1,901	1,935	1,939	1,991	2,091	79	79	79	79	83		

**SB On Ramp**

Time	Length (mi)	2019 Auto Flow (vehicle/hr)	2024 Auto Flow (vehicle/hr)	2024-2025 Average Auto Flow (vehicle/hr)	2026-2039 Average Auto Flow (vehicle/hr)	2040-2053 Average Auto Flow (vehicle/hr)	2019 Truck Flow (vehicle/hr)	2024 Truck Flow (vehicle/hr)	2024-2025 Average Truck Flow (vehicle/hr)	2026-2039 Average Truck Flow (vehicle/hr)	2040-2053 Average Truck Flow (vehicle/hr)	Auto Scalar	Truck scalar
0:00	0.164	53	54	54	56	59	2	2	2	2	2	0.231	0.524
1:00	0.164	42	43	43	44	46	2	2	2	2	2	0.182	0.515
2:00	0.164	37	38	38	39	41	2	2	2	2	2	0.160	0.551
3:00	0.164	40	41	41	42	45	2	2	2	2	2	0.176	0.696
4:00	0.164	69	70	70	72	76	3	3	3	3	3	0.299	0.921
5:00	0.164	141	144	144	148	156	6	6	6	6	7	0.614	1.000
6:00	0.164	181	184	185	190	199	8	8	8	8	9	0.787	0.819
7:00	0.164	181	185	185	190	200	8	8	8	8	9	0.789	0.727
8:00	0.164	186	189	190	195	205	8	8	8	8	9	0.809	0.771
9:00	0.164	190	193	193	199	209	8	8	8	8	9	0.825	0.855
10:00	0.164	193	197	197	202	213	8	8	8	8	9	0.840	0.894
11:00	0.164	195	199	199	205	215	8	8	8	8	9	0.849	0.885
12:00	0.164	197	200	200	206	217	8	8	8	8	9	0.855	0.841
13:00	0.164	201	204	204	210	221	8	8	8	8	9	0.872	0.740
14:00	0.164	214	218	219	225	236	9	9	9	9	10	0.932	0.581
15:00	0.164	222	226	227	233	245	9	9	9	9	10	0.966	0.467
16:00	0.164	230	234	234	241	253	10	10	10	10	11	1.000	0.392
17:00	0.164	229	233	234	240	252	10	10	10	10	11	0.996	0.348
18:00	0.164	198	201	202	208	218	8	8	8	8	9	0.861	0.520
19:00	0.164	164	167	167	172	181	7	7	7	7	8	0.714	0.692
20:00	0.164	143	146	146	150	158	6	6	6	6	7	0.624	0.722
21:00	0.164	126	128	128	132	138	5	5	5	5	6	0.546	0.674
22:00	0.164	96	98	98	101	106	4	4	4	4	4	0.418	0.634
23:00	0.164	71	72	72	74	78	3	3	3	3	3	0.308	0.590

length 263.5

road width 8

AADT 3,600 3,664 3,670 3,774 3,967 152 152 152 152 169

Truck Speed = 55 mph (Commercial truck speed limit) Ramp Speeds (all vehicles) = 15 mph  
 Non-Truck Speed = 65 mph (Maximum PEMS Data, PEMS range =60-70 mph)

2024			2024-2025			2026-2039			2040-2053		
EMFAC 2021 Emission Factors (g/mi)			EMFAC 2021 Emission Factors (g/mi)			EMFAC 2021 Emission Factors (g/mi)			EMFAC 2021 Emission Factors (g/mi)		
Mainline			Mainline			Mainline			Mainline		
Auto TOG	Truck PM	Truck TOG	Auto TOG	Truck PM	Truck TOG	Auto TOG	Truck PM	Truck TOG	Auto TOG	Truck PM	Truck TOG
0.016213913	0.020922135	0.01133273	0.015367321	0.020745208	0.011126933	0.00824817	0.018359318	0.008716438	0.004479552	0.015882484	0.007098319
Ramps			Ramps			Ramps			Ramps		
Auto TOG	Truck PM	Truck TOG	Auto TOG	Truck PM	Truck TOG	Auto TOG	Truck PM	Truck TOG	Auto TOG	Truck PM	Truck TOG
0.050842909	0.009707267	0.044125974	0.048301213	0.009519651	0.043200449	0.026553467	0.007002792	0.031923654	0.014481505	0.005262484	0.024451806

I-5 Northbound Time	2024			2024-2025			2026-2039			2040-2053		
	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)
0:00	9.30E-03	4.22E-04	2.28E-04	8.83E-03	4.18E-04	2.24E-04	4.88E-03	3.82E-04	1.81E-04	2.78E-03	3.46E-04	1.55E-04
1:00	6.35E-03	2.77E-04	1.50E-04	6.03E-03	2.74E-04	1.47E-04	3.33E-03	2.49E-04	1.18E-04	1.90E-03	2.26E-04	1.01E-04
2:00	5.29E-03	2.14E-04	1.16E-04	5.02E-03	2.13E-04	1.14E-04	2.77E-03	1.88E-04	8.93E-05	1.58E-03	1.73E-04	7.74E-05
3:00	5.46E-03	2.35E-04	1.27E-04	5.18E-03	2.33E-04	1.25E-04	2.86E-03	2.12E-04	1.01E-04	1.63E-03	1.89E-04	8.44E-05
4:00	9.32E-03	4.22E-04	2.28E-04	8.85E-03	4.18E-04	2.24E-04	4.88E-03	3.82E-04	1.81E-04	2.79E-03	3.46E-04	1.55E-04
5:00	1.87E-02	9.47E-04	5.13E-04	1.77E-02	9.46E-04	5.07E-04	9.78E-03	8.61E-04	4.09E-04	5.57E-03	7.82E-04	3.49E-04
6:00	2.50E-02	1.33E-03	7.19E-04	2.38E-02	1.32E-03	7.10E-04	1.31E-02	1.20E-03	5.70E-04	7.48E-03	1.09E-03	4.88E-04
7:00	2.81E-02	1.48E-03	8.01E-04	2.67E-02	1.47E-03	7.87E-04	1.47E-02	1.33E-03	6.34E-04	8.39E-03	1.21E-03	5.42E-04
8:00	2.88E-02	1.54E-03	8.35E-04	2.73E-02	1.53E-03	8.20E-04	1.51E-02	1.40E-03	6.62E-04	8.61E-03	1.26E-03	5.65E-04
9:00	2.90E-02	1.56E-03	8.46E-04	2.75E-02	1.55E-03	8.31E-04	1.52E-02	1.41E-03	6.71E-04	8.67E-03	1.28E-03	5.72E-04
10:00	2.96E-02	1.58E-03	8.58E-04	2.81E-02	1.57E-03	8.42E-04	1.55E-02	1.43E-03	6.80E-04	8.84E-03	1.30E-03	5.82E-04
11:00	3.03E-02	1.63E-03	8.84E-04	2.87E-02	1.62E-03	8.71E-04	1.59E-02	1.47E-03	7.00E-04	9.04E-03	1.34E-03	5.98E-04
12:00	3.10E-02	1.67E-03	9.03E-04	2.94E-02	1.66E-03	8.90E-04	1.63E-02	1.50E-03	7.14E-04	9.27E-03	1.37E-03	6.12E-04
13:00	3.14E-02	1.68E-03	9.10E-04	2.98E-02	1.67E-03	8.97E-04	1.64E-02	1.52E-03	7.23E-04	9.38E-03	1.38E-03	6.17E-04
14:00	3.16E-02	1.69E-03	9.14E-04	3.00E-02	1.68E-03	9.01E-04	1.66E-02	1.53E-03	7.26E-04	9.44E-03	1.39E-03	6.19E-04
15:00	3.14E-02	1.69E-03	9.14E-04	2.98E-02	1.68E-03	9.01E-04	1.64E-02	1.53E-03	7.26E-04	9.37E-03	1.39E-03	6.19E-04
16:00	3.14E-02	1.68E-03	9.10E-04	2.98E-02	1.67E-03	8.97E-04	1.64E-02	1.52E-03	7.23E-04	9.37E-03	1.38E-03	6.17E-04
17:00	3.15E-02	1.67E-03	9.03E-04	2.99E-02	1.66E-03	8.90E-04	1.65E-02	1.50E-03	7.14E-04	9.41E-03	1.37E-03	6.12E-04
18:00	3.02E-02	1.63E-03	8.84E-04	2.87E-02	1.62E-03	8.71E-04	1.58E-02	1.47E-03	7.00E-04	9.03E-03	1.34E-03	5.98E-04
19:00	2.76E-02	1.47E-03	7.94E-04	2.62E-02	1.45E-03	7.79E-04	1.45E-02	1.32E-03	6.28E-04	8.25E-03	1.20E-03	5.37E-04
20:00	2.50E-02	1.31E-03	7.12E-04	2.37E-02	1.31E-03	7.02E-04	1.31E-02	1.19E-03	5.65E-04	7.47E-03	1.08E-03	4.83E-04
21:00	2.33E-02	1.22E-03	6.59E-04	2.22E-02	1.21E-03	6.47E-04	1.22E-02	1.10E-03	5.21E-04	6.98E-03	9.97E-04	4.46E-04
22:00	1.98E-02	1.02E-03	5.54E-04	1.88E-02	1.01E-03	5.44E-04	1.04E-02	9.22E-04	4.38E-04	5.93E-03	8.40E-04	3.75E-04
23:00	1.41E-02	6.98E-04	3.78E-04	1.34E-02	6.92E-04	3.71E-04	7.40E-03	6.31E-04	3.00E-04	4.22E-03	5.72E-04	2.56E-04
length	3.16E-02	1.69E-03	9.14E-04	3.00E-02	1.68E-03	9.01E-04	1.66E-02	1.53E-03	7.26E-04	9.44E-03	1.39E-03	6.19E-04
road width	Maximum			Maximum			Maximum			Maximum		

I-5 Southbound												
Time	2024			2024-2025			2026-2039			2040-2053		
	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)
0:00	7.93E-03	8.43E-04	4.57E-04	7.53E-03	8.36E-04	4.48E-04	4.16E-03	7.64E-04	6.63E-04	2.37E-03	6.93E-04	3.10E-04
1:00	6.25E-03	8.29E-04	4.49E-04	5.93E-03	8.22E-04	4.41E-04	3.27E-03	7.52E-04	3.57E-04	1.87E-03	6.82E-04	3.05E-04
2:00	5.51E-03	8.85E-04	4.79E-04	5.23E-03	8.77E-04	4.71E-04	2.88E-03	8.01E-04	3.80E-04	1.65E-03	7.30E-04	3.26E-04
3:00	6.04E-03	1.12E-03	6.08E-04	5.73E-03	1.11E-03	5.97E-04	3.16E-03	1.01E-03	4.82E-04	1.81E-03	9.20E-04	4.11E-04
4:00	1.03E-02	1.48E-03	8.04E-04	9.74E-03	1.47E-03	7.89E-04	5.38E-03	1.34E-03	6.36E-04	3.07E-03	1.22E-03	5.44E-04
5:00	2.11E-02	1.61E-03	8.72E-04	2.00E-02	1.60E-03	8.56E-04	1.11E-02	1.46E-03	6.91E-04	6.30E-03	1.32E-03	5.91E-04
6:00	2.70E-02	1.32E-03	7.13E-04	2.56E-02	1.31E-03	7.04E-04	1.42E-02	1.19E-03	5.66E-04	8.07E-03	1.08E-03	4.85E-04
7:00	2.71E-02	1.17E-03	6.34E-04	2.57E-02	1.16E-03	6.23E-04	1.42E-02	1.06E-03	5.02E-04	8.09E-03	9.63E-04	4.30E-04
8:00	2.78E-02	1.24E-03	6.72E-04	2.64E-02	1.23E-03	6.60E-04	1.45E-02	1.12E-03	5.31E-04	8.30E-03	1.02E-03	4.56E-04
9:00	2.83E-02	1.37E-03	7.44E-04	2.69E-02	1.37E-03	7.34E-04	1.48E-02	1.24E-03	5.89E-04	8.46E-03	1.13E-03	5.06E-04
10:00	2.88E-02	1.44E-03	7.81E-04	2.74E-02	1.43E-03	7.67E-04	1.51E-02	1.30E-03	6.18E-04	8.62E-03	1.18E-03	5.27E-04
11:00	2.91E-02	1.43E-03	7.74E-04	2.77E-02	1.42E-03	7.60E-04	1.53E-02	1.29E-03	6.13E-04	8.71E-03	1.17E-03	5.22E-04
12:00	2.93E-02	1.35E-03	7.32E-04	2.79E-02	1.35E-03	7.23E-04	1.54E-02	1.22E-03	5.81E-04	8.77E-03	1.11E-03	4.96E-04
13:00	2.99E-02	1.19E-03	6.45E-04	2.84E-02	1.18E-03	6.34E-04	1.57E-02	1.08E-03	5.11E-04	8.94E-03	9.79E-04	4.37E-04
14:00	3.20E-02	9.34E-04	5.06E-04	3.04E-02	9.33E-04	5.00E-04	1.68E-02	8.44E-04	4.01E-04	9.56E-03	7.67E-04	3.74E-04
15:00	3.32E-02	7.53E-04	4.08E-04	3.15E-02	7.46E-04	4.00E-04	1.74E-02	6.79E-04	3.22E-04	9.91E-03	6.19E-04	2.77E-04
16:00	3.43E-02	6.34E-04	3.43E-04	3.26E-02	6.29E-04	3.37E-04	1.80E-02	5.69E-04	2.70E-04	1.03E-02	5.18E-04	2.32E-04
17:00	3.42E-02	5.57E-04	3.02E-04	3.25E-02	5.60E-04	3.00E-04	1.79E-02	5.07E-04	2.41E-04	1.02E-02	4.60E-04	2.06E-04
18:00	2.95E-02	8.36E-04	4.53E-04	2.81E-02	8.29E-04	4.45E-04	1.55E-02	7.58E-04	3.60E-04	8.83E-03	6.88E-04	3.07E-04
19:00	2.45E-02	1.11E-03	6.04E-04	1.28E-04	1.11E-03	5.93E-04	1.28E-02	1.01E-03	4.79E-04	7.32E-03	9.15E-04	4.09E-04
20:00	2.14E-02	1.16E-03	6.30E-04	2.03E-02	1.15E-03	6.19E-04	1.12E-02	1.05E-03	4.99E-04	6.40E-03	9.57E-04	4.28E-04
21:00	1.88E-02	1.09E-03	5.89E-04	1.78E-02	1.08E-03	5.78E-04	9.83E-03	9.78E-04	4.64E-04	5.61E-03	8.89E-04	3.97E-04
22:00	1.43E-02	1.02E-03	5.55E-04	1.36E-02	1.02E-03	5.45E-04	7.51E-03	9.23E-04	4.38E-04	4.28E-03	8.41E-04	3.76E-04
23:00	1.06E-02	9.48E-04	5.13E-04	1.00E-02	9.47E-04	5.08E-04	5.54E-03	8.56E-04	4.06E-04	3.16E-03	7.83E-04	3.50E-04
length	<b>3.43E-02</b>	<b>1.61E-03</b>	<b>8.72E-04</b>	<b>3.26E-02</b>	<b>1.60E-03</b>	<b>8.56E-04</b>	<b>1.80E-02</b>	<b>1.46E-03</b>	<b>6.91E-04</b>	<b>1.03E-02</b>	<b>1.32E-03</b>	<b>5.91E-04</b>
road width	<i>Maximum</i>			<i>Maximum</i>			<i>Maximum</i>			<i>Maximum</i>		
NB Off Ramp												
Time	2024			2024-2025			2026-2039			2040-2053		
	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)
0:00	9.36E-05	5.11E-07	2.32E-06	8.89E-05	5.01E-07	2.27E-06	5.03E-05	3.68E-07	1.68E-06	2.82E-05	2.77E-07	1.29E-06
1:00	6.42E-05	5.11E-07	2.32E-06	6.10E-05	5.01E-07	2.27E-06	3.35E-05	3.68E-07	1.68E-06	1.98E-05	2.77E-07	1.29E-06
2:00	5.35E-05	5.11E-07	2.32E-06	5.08E-05	5.01E-07	2.27E-06	2.79E-05	3.68E-07	1.68E-06	1.60E-05	2.77E-07	1.29E-06
3:00	5.35E-05	5.11E-07	2.32E-06	5.08E-05	5.01E-07	2.27E-06	2.93E-05	3.68E-07	1.68E-06	1.68E-05	2.77E-07	1.29E-06
4:00	9.36E-05	5.11E-07	2.32E-06	8.89E-05	5.01E-07	2.27E-06	5.03E-05	3.68E-07	1.68E-06	2.90E-05	2.77E-07	1.29E-06
5:00	1.87E-04	1.53E-06	6.96E-06	1.78E-04	1.50E-06	6.82E-06	1.01E-04	1.11E-06	5.04E-06	5.71E-05	8.31E-07	3.86E-06
6:00	2.49E-04	2.04E-06	9.29E-06	2.36E-04	2.00E-06	9.09E-06	1.34E-04	1.47E-06	6.72E-06	7.69E-05	1.11E-06	5.15E-06
7:00	2.81E-04	2.04E-06	9.29E-06	2.67E-04	2.00E-06	9.09E-06	1.51E-04	1.47E-06	6.72E-06	8.61E-05	1.11E-06	5.15E-06
8:00	2.86E-04	2.04E-06	9.29E-06	2.72E-04	2.00E-06	9.09E-06	1.55E-04	1.47E-06	6.72E-06	8.84E-05	1.11E-06	5.15E-06
9:00	2.89E-04	2.04E-06	9.29E-06	2.74E-04	2.00E-06	9.09E-06	1.55E-04	1.47E-06	6.72E-06	8.91E-05	1.11E-06	5.15E-06
10:00	2.94E-04	2.04E-06	9.29E-06	2.80E-04	2.00E-06	9.09E-06	1.59E-04	1.47E-06	6.72E-06	9.07E-05	1.11E-06	5.15E-06
11:00	3.02E-04	2.55E-06	1.16E-05	2.87E-04	2.50E-06	1.14E-05	1.62E-04	1.84E-06	8.40E-06	9.29E-05	1.66E-06	7.72E-06
12:00	3.10E-04	2.55E-06	1.16E-05	2.95E-04	2.50E-06	1.14E-05	1.66E-04	1.84E-06	8.40E-06	9.52E-05	1.66E-06	7.72E-06
13:00	3.13E-04	2.55E-06	1.16E-05	2.97E-04	2.50E-06	1.14E-05	1.68E-04	1.84E-06	8.40E-06	9.60E-05	1.66E-06	7.72E-06
14:00	3.16E-04	2.55E-06	1.16E-05	3.00E-04	2.50E-06	1.14E-05	1.69E-04	1.84E-06	8.40E-06	9.68E-05	1.66E-06	7.72E-06
15:00	3.13E-04	2.55E-06	1.16E-05	2.97E-04	2.50E-06	1.14E-05	1.68E-04	1.84E-06	8.40E-06	9.60E-05	1.66E-06	7.72E-06
16:00	3.13E-04	2.55E-06	1.16E-05	2.97E-04	2.50E-06	1.14E-05	1.68E-04	1.84E-06	8.40E-06	9.60E-05	1.66E-06	7.72E-06
17:00	3.13E-04	2.55E-06	1.16E-05	2.97E-04	2.50E-06	1.14E-05	1.69E-04	1.84E-06	8.40E-06	9.68E-05	1.66E-06	7.72E-06
18:00	3.02E-04	2.55E-06	1.16E-05	2.87E-04	2.50E-06	1.14E-05	1.62E-04	1.84E-06	8.40E-06	9.29E-05	1.66E-06	7.72E-06
19:00	2.76E-04	2.04E-06	9.29E-06	2.62E-04	2.00E-06	9.09E-06	1.48E-04	1.47E-06	6.72E-06	8.46E-05	1.11E-06	5.15E-06
20:00	2.49E-04	2.04E-06	9.29E-06	2.36E-04	2.00E-06	9.09E-06	1.34E-04	1.47E-06	6.72E-06	7.69E-05	1.11E-06	5.15E-06
21:00	2.33E-04	2.04E-06	9.29E-06	2.21E-04	2.00E-06	9.09E-06	1.26E-04	1.47E-06	6.72E-06	7.16E-05	1.11E-06	5.15E-06
22:00	1.98E-04	1.53E-06	6.96E-06	1.88E-04	1.50E-06	6.82E-06	1.06E-04	1.11E-06	5.04E-06	6.09E-05	8.31E-07	3.86E-06
23:00	1.42E-04	1.02E-06	4.64E-06	1.35E-04	1.00E-06	4.55E-06	7.54E-05	7.37E-07	3.36E-06	4.34E-05	5.54E-07	2.57E-06
length	<b>3.16E-04</b>	<b>2.55E-06</b>	<b>1.16E-05</b>	<b>3.00E-04</b>	<b>2.50E-06</b>	<b>1.14E-05</b>	<b>1.69E-04</b>	<b>1.84E-06</b>	<b>8.40E-06</b>	<b>9.68E-05</b>	<b>1.66E-06</b>	<b>7.72E-06</b>
road width	<i>Maximum</i>			<i>Maximum</i>			<i>Maximum</i>			<i>Maximum</i>		

NB On Ramp	2024			2024-2025			2026-2039			2040-2053		
	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)
Time												
0:00	9.65E-05	8.98E-07	4.08E-06	9.16E-05	8.81E-07	4.00E-06	5.28E-05	6.48E-07	2.95E-06	3.02E-05	4.87E-07	2.26E-06
1:00	6.59E-05	4.49E-07	2.04E-06	6.26E-05	4.41E-07	2.00E-06	3.56E-05	3.24E-07	1.48E-06	2.08E-05	2.44E-07	1.13E-06
2:00	5.65E-05	4.49E-07	2.04E-06	5.36E-05	4.41E-07	2.00E-06	2.95E-05	3.24E-07	1.48E-06	1.68E-05	2.44E-07	1.13E-06
3:00	5.65E-05	4.49E-07	2.04E-06	5.36E-05	4.41E-07	2.00E-06	3.07E-05	3.24E-07	1.48E-06	1.74E-05	2.44E-07	1.13E-06
4:00	9.65E-05	8.98E-07	4.08E-06	9.39E-05	8.81E-07	4.00E-06	5.28E-05	6.48E-07	2.95E-06	3.02E-05	4.87E-07	2.26E-06
5:00	1.95E-04	1.35E-06	6.13E-06	1.86E-04	1.32E-06	6.00E-06	1.04E-04	9.72E-07	4.43E-06	6.03E-05	7.31E-07	3.39E-06
6:00	2.61E-04	2.25E-06	1.02E-05	2.50E-04	2.20E-06	1.00E-05	1.41E-04	1.62E-06	7.39E-06	8.04E-05	1.46E-06	6.79E-06
7:00	2.94E-04	2.25E-06	1.02E-05	2.79E-04	2.20E-06	1.00E-05	1.59E-04	1.62E-06	7.39E-06	9.05E-05	1.46E-06	6.79E-06
8:00	3.01E-04	2.25E-06	1.02E-05	2.86E-04	2.20E-06	1.00E-05	1.62E-04	1.62E-06	7.39E-06	9.31E-05	1.46E-06	6.79E-06
9:00	3.04E-04	2.25E-06	1.02E-05	2.88E-04	2.20E-06	1.00E-05	1.63E-04	1.62E-06	7.39E-06	9.38E-05	1.46E-06	6.79E-06
10:00	3.11E-04	2.25E-06	1.02E-05	2.95E-04	2.20E-06	1.00E-05	1.67E-04	1.62E-06	7.39E-06	9.52E-05	1.46E-06	6.79E-06
11:00	3.18E-04	2.70E-06	1.23E-05	3.02E-04	2.64E-06	1.20E-05	1.71E-04	1.94E-06	8.86E-06	9.78E-05	1.70E-06	7.92E-06
12:00	3.25E-04	2.70E-06	1.23E-05	3.08E-04	2.64E-06	1.20E-05	1.74E-04	1.94E-06	8.86E-06	9.98E-05	1.70E-06	7.92E-06
13:00	3.29E-04	2.70E-06	1.23E-05	3.13E-04	2.64E-06	1.20E-05	1.77E-04	1.94E-06	8.86E-06	1.01E-04	1.70E-06	7.92E-06
14:00	3.32E-04	2.70E-06	1.23E-05	3.15E-04	2.64E-06	1.20E-05	1.78E-04	1.94E-06	8.86E-06	1.02E-04	1.70E-06	7.92E-06
15:00	3.29E-04	2.70E-06	1.23E-05	3.13E-04	2.64E-06	1.20E-05	1.77E-04	1.94E-06	8.86E-06	1.01E-04	1.70E-06	7.92E-06
16:00	3.29E-04	2.70E-06	1.23E-05	3.13E-04	2.64E-06	1.20E-05	1.77E-04	1.94E-06	8.86E-06	1.01E-04	1.70E-06	7.92E-06
17:00	3.29E-04	2.70E-06	1.23E-05	3.13E-04	2.64E-06	1.20E-05	1.77E-04	1.94E-06	8.86E-06	1.01E-04	1.70E-06	7.92E-06
18:00	3.15E-04	2.70E-06	1.23E-05	3.02E-04	2.64E-06	1.20E-05	1.70E-04	1.94E-06	8.86E-06	9.72E-05	1.70E-06	7.92E-06
19:00	2.89E-04	2.25E-06	1.02E-05	5.59E-05	2.20E-06	1.00E-05	1.55E-04	1.62E-06	7.39E-06	8.91E-05	1.46E-06	6.79E-06
20:00	2.61E-04	2.25E-06	1.02E-05	2.48E-04	2.20E-06	1.00E-05	1.41E-04	1.62E-06	7.39E-06	8.04E-05	1.46E-06	6.79E-06
21:00	2.45E-04	1.80E-06	8.17E-06	2.32E-04	1.76E-06	8.00E-06	1.31E-04	1.30E-06	5.91E-06	7.51E-05	9.74E-07	4.53E-06
22:00	2.07E-04	1.80E-06	8.17E-06	1.97E-04	1.76E-06	8.00E-06	1.12E-04	1.30E-06	5.91E-06	6.37E-05	9.74E-07	4.53E-06
23:00	1.48E-04	1.35E-06	6.13E-06	1.41E-04	1.32E-06	6.00E-06	7.99E-05	9.72E-07	4.43E-06	4.56E-05	7.31E-07	3.39E-06
length	<b>3.32E-04</b>	<b>2.70E-06</b>	<b>1.23E-05</b>	<b>3.15E-04</b>	<b>2.64E-06</b>	<b>1.20E-05</b>	<b>1.78E-04</b>	<b>1.94E-06</b>	<b>8.86E-06</b>	<b>1.02E-04</b>	<b>1.70E-06</b>	<b>7.92E-06</b>
road width	<i>Maximum</i>			<i>Maximum</i>			<i>Maximum</i>			<i>Maximum</i>		
<b>SB Off Ramp</b>												
SB Off Ramp	2024			2024-2025			2026-2039			2040-2053		
	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)
Time												
0:00	8.78E-05	5.78E-07	2.63E-06	8.34E-05	5.67E-07	2.57E-06	4.59E-05	4.17E-07	1.90E-06	2.67E-05	3.13E-07	1.46E-06
1:00	6.66E-05	5.78E-07	2.63E-06	6.62E-05	5.67E-07	2.57E-06	3.64E-05	4.17E-07	1.90E-06	2.07E-05	3.13E-07	1.46E-06
2:00	6.06E-05	5.78E-07	2.63E-06	5.75E-05	5.67E-07	2.57E-06	3.16E-05	4.17E-07	1.90E-06	1.81E-05	3.13E-07	1.46E-06
3:00	6.66E-05	5.78E-07	2.63E-06	6.33E-05	5.67E-07	2.57E-06	3.48E-05	4.17E-07	1.90E-06	2.07E-05	3.13E-07	1.46E-06
4:00	1.12E-04	1.16E-06	5.26E-06	1.06E-04	1.13E-06	5.15E-06	6.01E-05	8.34E-07	3.80E-06	3.45E-05	6.27E-07	2.91E-06
5:00	2.30E-04	1.73E-06	7.89E-06	2.19E-04	1.70E-06	7.72E-06	1.23E-04	1.25E-06	5.70E-06	7.07E-05	9.40E-07	4.37E-06
6:00	2.94E-04	2.31E-06	1.05E-05	2.79E-04	2.27E-06	1.03E-05	1.58E-04	1.67E-06	7.61E-06	9.06E-05	1.25E-06	5.83E-06
7:00	2.94E-04	2.31E-06	1.05E-05	2.82E-04	2.27E-06	1.03E-05	1.58E-04	1.67E-06	7.61E-06	9.06E-05	1.25E-06	5.83E-06
8:00	3.03E-04	2.31E-06	1.05E-05	2.88E-04	2.27E-06	1.03E-05	1.63E-04	1.67E-06	7.61E-06	9.32E-05	1.25E-06	5.83E-06
9:00	3.09E-04	2.31E-06	1.05E-05	2.93E-04	2.27E-06	1.03E-05	1.66E-04	1.67E-06	7.61E-06	9.49E-05	1.25E-06	5.83E-06
10:00	3.15E-04	2.31E-06	1.05E-05	2.99E-04	2.27E-06	1.03E-05	1.69E-04	1.67E-06	7.61E-06	9.66E-05	1.25E-06	5.83E-06
11:00	3.18E-04	2.31E-06	1.05E-05	3.02E-04	2.27E-06	1.03E-05	1.71E-04	1.67E-06	7.61E-06	9.83E-05	1.25E-06	5.83E-06
12:00	3.21E-04	2.31E-06	1.05E-05	3.05E-04	2.27E-06	1.03E-05	1.72E-04	1.67E-06	7.61E-06	9.83E-05	1.25E-06	5.83E-06
13:00	3.27E-04	2.31E-06	1.05E-05	3.11E-04	2.27E-06	1.03E-05	1.76E-04	1.67E-06	7.61E-06	1.01E-04	1.25E-06	5.83E-06
14:00	3.48E-04	2.89E-06	1.31E-05	3.31E-04	2.84E-06	1.29E-05	1.88E-04	2.09E-06	9.51E-06	1.08E-04	1.88E-06	8.74E-06
15:00	3.60E-04	2.89E-06	1.31E-05	3.45E-04	2.84E-06	1.29E-05	1.95E-04	2.09E-06	9.51E-06	1.11E-04	1.88E-06	8.74E-06
16:00	3.76E-04	2.89E-06	1.31E-05	3.57E-04	2.84E-06	1.29E-05	2.01E-04	2.09E-06	9.51E-06	1.16E-04	1.88E-06	8.74E-06
17:00	3.73E-04	2.89E-06	1.31E-05	3.54E-04	2.84E-06	1.29E-05	2.01E-04	2.09E-06	9.51E-06	1.15E-04	1.88E-06	8.74E-06
18:00	3.21E-04	2.31E-06	1.05E-05	3.08E-04	2.27E-06	1.03E-05	1.74E-04	1.67E-06	7.61E-06	9.92E-05	1.25E-06	5.83E-06
19:00	2.67E-04	2.31E-06	1.05E-05	2.53E-04	2.27E-06	1.03E-05	1.44E-04	1.67E-06	7.61E-06	8.19E-05	1.25E-06	5.83E-06
20:00	2.33E-04	1.73E-06	7.89E-06	2.22E-04	1.70E-06	7.72E-06	1.25E-04	1.25E-06	5.70E-06	7.16E-05	9.40E-07	4.37E-06
21:00	2.06E-04	1.73E-06	7.89E-06	1.96E-04	1.70E-06	7.72E-06	1.11E-04	1.25E-06	5.70E-06	6.30E-05	9.40E-07	4.37E-06
22:00	1.57E-04	1.16E-06	5.26E-06	1.50E-04	1.13E-06	5.15E-06	8.38E-05	8.34E-07	3.80E-06	4.83E-05	6.27E-07	2.91E-06
23:00	1.15E-04	1.16E-06	5.26E-06	1.09E-04	1.13E-06	5.15E-06	6.17E-05	8.34E-07	3.80E-06	3.54E-05	6.27E-07	2.91E-06
length	<b>3.76E-04</b>	<b>2.89E-06</b>	<b>1.31E-05</b>	<b>3.57E-04</b>	<b>2.84E-06</b>	<b>1.29E-05</b>	<b>2.01E-04</b>	<b>2.09E-06</b>	<b>9.51E-06</b>	<b>1.16E-04</b>	<b>1.88E-06</b>	<b>8.74E-06</b>
road width	<i>Maximum</i>			<i>Maximum</i>			<i>Maximum</i>			<i>Maximum</i>		
<b>SB On Ramp</b>												
SB On Ramp	2024			2024-2025			2026-2039			2040-2053		

Time	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)	Auto TOG Emissions (g/s)	Truck PM Emissions (g/s)	Truck TOG Emissions (g/s)
0:00	3.98E-05	1.90E-06	1.03E-06	3.77E-05	1.89E-06	1.01E-06	2.10E-05	1.67E-06	7.93E-07	1.20E-05	1.44E-06	6.46E-07
1:00	3.17E-05	1.90E-06	1.03E-06	3.01E-05	1.89E-06	1.01E-06	1.65E-05	1.67E-06	7.93E-07	9.37E-06	1.44E-06	6.46E-07
2:00	2.80E-05	1.90E-06	1.03E-06	2.66E-05	1.89E-06	1.01E-06	1.46E-05	1.67E-06	7.93E-07	8.35E-06	1.44E-06	6.46E-07
3:00	3.02E-05	1.90E-06	1.03E-06	2.87E-05	1.89E-06	1.01E-06	1.58E-05	1.67E-06	7.93E-07	9.17E-06	1.44E-06	6.46E-07
4:00	5.16E-05	2.85E-06	1.55E-06	4.89E-05	2.83E-06	1.52E-06	2.70E-05	2.50E-06	1.19E-06	1.55E-05	2.17E-06	9.69E-07
5:00	1.06E-04	5.71E-06	3.09E-06	1.01E-04	5.66E-06	3.04E-06	5.55E-05	5.01E-06	2.38E-06	3.18E-05	5.06E-06	2.26E-06
6:00	1.36E-04	7.61E-06	4.12E-06	1.29E-04	7.55E-06	4.05E-06	7.13E-05	6.68E-06	3.17E-06	4.05E-05	6.50E-06	2.91E-06
7:00	1.36E-04	7.61E-06	4.12E-06	1.29E-04	7.55E-06	4.05E-06	7.13E-05	6.68E-06	3.17E-06	4.07E-05	6.50E-06	2.91E-06
8:00	1.39E-04	7.61E-06	4.12E-06	1.33E-04	7.55E-06	4.05E-06	7.32E-05	6.68E-06	3.17E-06	4.18E-05	6.50E-06	2.91E-06
9:00	1.42E-04	7.61E-06	4.12E-06	1.35E-04	7.55E-06	4.05E-06	7.47E-05	6.68E-06	3.17E-06	4.26E-05	6.50E-06	2.91E-06
10:00	1.45E-04	7.61E-06	4.12E-06	1.38E-04	7.55E-06	4.05E-06	7.58E-05	6.68E-06	3.17E-06	4.34E-05	6.50E-06	2.91E-06
11:00	1.47E-04	7.61E-06	4.12E-06	1.39E-04	7.55E-06	4.05E-06	7.69E-05	6.68E-06	3.17E-06	4.38E-05	6.50E-06	2.91E-06
12:00	1.47E-04	7.61E-06	4.12E-06	1.40E-04	7.55E-06	4.05E-06	7.73E-05	6.68E-06	3.17E-06	4.42E-05	6.50E-06	2.91E-06
13:00	1.50E-04	7.61E-06	4.12E-06	1.43E-04	7.55E-06	4.05E-06	7.88E-05	6.68E-06	3.17E-06	4.50E-05	6.50E-06	2.91E-06
14:00	1.61E-04	8.56E-06	4.64E-06	1.53E-04	8.49E-06	4.55E-06	8.44E-05	7.51E-06	3.57E-06	4.81E-05	7.22E-06	3.23E-06
15:00	1.67E-04	8.56E-06	4.64E-06	1.59E-04	8.49E-06	4.55E-06	8.74E-05	7.51E-06	3.57E-06	4.99E-05	7.22E-06	3.23E-06
16:00	1.73E-04	9.52E-06	5.15E-06	1.64E-04	9.44E-06	5.06E-06	9.04E-05	8.35E-06	3.96E-06	5.15E-05	7.95E-06	3.55E-06
17:00	1.72E-04	9.52E-06	5.15E-06	1.64E-04	9.44E-06	5.06E-06	9.00E-05	8.35E-06	3.96E-06	5.13E-05	7.95E-06	3.55E-06
18:00	1.48E-04	7.61E-06	4.12E-06	1.41E-04	7.55E-06	4.05E-06	7.80E-05	6.68E-06	3.17E-06	4.44E-05	6.50E-06	2.91E-06
19:00	1.23E-04	6.66E-06	3.61E-06	1.17E-04	6.60E-06	3.54E-06	6.45E-05	5.84E-06	2.78E-06	3.69E-05	5.78E-06	2.58E-06
20:00	1.08E-04	5.71E-06	3.09E-06	1.02E-04	5.66E-06	3.04E-06	5.63E-05	5.01E-06	2.38E-06	3.22E-05	5.06E-06	2.26E-06
21:00	9.44E-05	4.76E-06	2.58E-06	8.95E-05	4.72E-06	2.53E-06	4.95E-05	4.17E-06	1.98E-06	2.81E-05	4.33E-06	1.94E-06
22:00	7.23E-05	3.81E-06	2.06E-06	6.85E-05	3.77E-06	2.02E-06	3.79E-05	3.34E-06	1.59E-06	2.16E-05	2.89E-06	1.29E-06
23:00	5.31E-05	2.85E-06	1.55E-06	5.03E-05	2.83E-06	1.52E-06	2.78E-05	2.50E-06	1.19E-06	1.59E-05	2.17E-06	9.69E-07
length	<b>1.73E-04</b>	<b>9.52E-06</b>	<b>5.15E-06</b>	<b>1.64E-04</b>	<b>9.44E-06</b>	<b>5.06E-06</b>	<b>9.04E-05</b>	<b>8.35E-06</b>	<b>3.96E-06</b>	<b>5.15E-05</b>	<b>7.95E-06</b>	<b>3.55E-06</b>
road width	<b>Maximum</b>			<b>Maximum</b>			<b>Maximum</b>			<b>Maximum</b>		



Wiley Canyon Development

Freeway Health Risk Assessment for Future Project Residents

AERMOD Source Characteristics

Emission Source	Source Type	Number of Sources	Length of Line (m)	Length of Line (mi)	Release Height Autos (m)	Release Height Trucks	Length of Side X (m)	Length of Side Y (m)	Initial Lateral (m)	Initial Vertical (m)	Plume Height Autos (m)	Plume Height Trucks	Plume Width (m)	Exit Temp (°F)	Inside Diameter (ft)	Exit Flow Rate (ft <sup>3</sup> /s)
Sources																
I-5 North Mainline	Line-Volume	1	1914.5	1.2	1.27	3.66	n/a	n/a	n/a	n/a	2.55	7.32	25.0	n/a	n/a	n/a
I-5 South Mainline	Line-Volume	1	1929.5	1.2	1.27	3.66	n/a	n/a	n/a	n/a	2.55	7.32	25.0	n/a	n/a	n/a
SB Off-Ramp to Calgrove	Line-Volume	1	345.1	0.2	1.27	3.66	n/a	n/a	n/a	n/a	2.55	7.32	8.0	n/a	n/a	n/a
NB On-Ramp from Calgrove	Line-Volume	1	268.1	0.2	1.27	3.66	n/a	n/a	n/a	n/a	2.55	7.32	8.0	n/a	n/a	n/a
SB On-Ramp from Calgrove	Line-Volume	1	263.5	0.2	1.27	3.66	n/a	n/a	n/a	n/a	2.55	7.32	8.0	n/a	n/a	n/a
NB Off-Ramp to Calgrove	Line-Volume	1	304.8	0.2	1.27	3.66	n/a	n/a	n/a	n/a	2.55	7.32	8.0	n/a	n/a	n/a

Source: ESA 2021

**Wiley Canyon Development**

**Freeway Health Risk Assessment for Future Project Residents**

**AERMOD Results**

Emission Source	Source Type	Pollutant	AERMOD
			( $\mu\text{g}/\text{m}^3$ )
			2024
Interstate-5/Chronic (Annual)	Line-Volume	DPM	<b>0.04366</b>
		Auto TOG	0.94972
		Truck TOG	0.02401
Interstate-5/1-hour	Line-Volume	DPM	0.18053
		Auto TOG	5.29408
		Truck TOG	0.10026
Interstate-5/8-hour	Line-Volume	DPM	0.11022
		Auto TOG	2.75128
		Truck TOG	0.0605

Source: Lakes Environmental, AERMOD View 9.8.1 (Version 19191) 2018; ESA 2021.

**Wiley Canyon Development**

**Freeway Health Risk Assessment for Future Project Residents**

**AERMOD Results**

Emission Source	Source Type	Pollutant	Unitized Max AERMOD Concentration			
			(µg/m <sup>3</sup> )			
			Year 2024	Year 2024-2025	Year 2026-2039	Year 2040-2053
Interstate-5/Annual	Line-Volume	DPM	<b>0.0322</b>	<b>0.0186</b>	<b>0.0292</b>	<b>0.0265</b>
		Auto TOG	0.6442	0.61185	0.33832	0.19285
		Truck TOG	0.0175	0.02078	0.01391	0.01188

Source: Lakes Environmental, AERMOD View 9.8.1 (Version 19191) 2018; ESA 2021.

Freeway Health Risk Assessment for Future Project Residents

Maximum Individual Cancer Risk Calculations - Sensitive Receptors (Maximum Impacted Senior Residential Receptor)  
 Evaluated as a residential receptor, starting with the 3rd Trimester

Cancer Risk Calculations

Parameter		Age Bins				Total 30 Year Exposure
		3rd Trimester	0 < 2	2 < 16	16 < 30	
DBR	Daily Breathing Rate (L/kg (body weight) per day)	361	1090	572	261	<b>30.25</b>
A	Inhalation absorption factor (default = 1).	1	1	1	1	
EF	Exposure Frequency (days/year)	350	350	350	350	
ED	Exposure Duration (years)	0.25	2	14	14	
FAH	Fraction of Time at Home <sup>a</sup>	1.00	1.00	1.00	0.73	
AT	Averaged Exposure Time Period (days)	25550	25550	25550	25550	
ASF	Age Sensitivity Factor	10	10	3	1	
<b>Diesel Particulate Matter</b>						
CONC	Toxic Air Contaminant Concentration (µg/m <sup>3</sup> )	3.22E-02	1.86E-02	2.92E-02	2.65E-02	
DOSE	[= CONC × DBR × A × EF × ED × FAH / AT] (mg/kg-d)	3.98E-02	5.57E-01	3.20E+00	9.67E-01	
WF	Weight Fraction Diesel Particulate Matter	1.00E+00	1.00E+00	1.00E+00	1.00E+00	
CPF	Cancer Potency Factor (mg/kg-d) <sup>-1</sup> Diesel Particulate Matter	1.1	1.1	1.1	1.1	
<b>Organics</b>						
Truck	CONC Toxic Air Contaminant Concentration (µg/m <sup>3</sup> )	0.01754	0.02078	0.01391	0.01188	
	DOSE [= CONC × DBR × A × EF × ED × FAH / AT] (mg/kg-d)	2.17E-02	6.21E-01	1.53E+00	4.34E-01	
Non-Truck	CONC Toxic Air Contaminant Concentration (µg/m <sup>3</sup> )	0.64422	0.61185	0.33832	0.19285	
	DOSE [= CONC × DBR × A × EF × ED × FAH / AT] (mg/kg-d)	7.96E-01	1.83E+01	3.71E+01	7.05E+00	
WF	Weight Fraction					
	Acetaldehyde - Truck	6.70E-02	6.70E-02	7.20E-02	7.91E-02	
	Acetaldehyde - Non-Truck	1.67E-02	1.67E-02	1.48E-02	1.21E-02	
	Benzene - Truck	2.16E-02	2.16E-02	2.24E-02	2.32E-02	
	Benzene - Non-Truck	2.38E-02	2.38E-02	2.43E-02	2.54E-02	
	Butadiene - Truck	2.79E-03	2.79E-03	2.60E-03	2.47E-03	
	Butadiene - Non-Truck	5.22E-03	5.22E-03	5.42E-03	5.83E-03	
	Formaldehyde - Truck	1.35E-01	1.35E-01	1.45E-01	1.59E-01	
	Formaldehyde - Non-Truck	4.08E-02	4.08E-02	3.73E-02	3.24E-02	
	Naphthalene - Truck	8.54E-04	8.54E-04	9.34E-04	9.96E-04	
	Naphthalene - Non-Truck	6.53E-04	6.53E-04	6.73E-04	7.39E-04	
CPF	Cancer Potency Factor (mg/kg-d) <sup>-1</sup>					
	Acetaldehyde - Truck					
	Acetaldehyde - Non-Truck	0.01	0.01	0.01	0.01	
	Benzene - Truck					
	Benzene - Non-Truck	0.1	0.1	0.1	0.1	
	Butadiene - Truck					
	Butadiene - Non-Truck	0.6	0.6	0.6	0.6	
	Formaldehyde - Truck					
	Formaldehyde - Non-Truck	0.021	0.021	0.021	0.021	
	Naphthalene - Truck					
	Naphthalene - Non-Truck	0.12	0.12	0.12	0.12	
RISK	Cancer Risk (in one million) [= DOSE × CPF × ASF]					
(Without MERV 13 Filters)	Diesel Particulate Matter	4.38E-01	6.12E+00	1.06E+01	1.06E+00	<b>18.19</b>
	Acetaldehyde	1.45E-04	4.16E-03	3.30E-03	3.44E-04	<b>0.01</b>
	Benzene	4.68E-04	1.34E-02	1.02E-02	1.01E-03	<b>0.03</b>
	Butadiene	3.64E-04	1.04E-02	7.14E-03	6.43E-04	<b>0.02</b>
	Formaldehyde	6.14E-04	1.76E-02	1.40E-02	1.45E-03	<b>0.03</b>
	Naphthalene	2.22E-05	6.36E-04	5.13E-04	5.19E-05	<b>0.001</b>
	<b>Total</b>	<b>0.44</b>	<b>6.17</b>	<b>10.60</b>	<b>1.07</b>	<b>18.27</b>
RISK	Cancer Risk (in one million) [= DOSE × CPF × ASF]					
(With MERV 13 Filters)	Diesel Particulate Matter	1.75E-01	2.45E+00	4.23E+00	4.25E-01	<b>7.28</b>
	Acetaldehyde	1.45E-04	4.16E-03	3.30E-03	3.44E-04	<b>0.01</b>
	Benzene	4.68E-04	1.34E-02	1.02E-02	1.01E-03	<b>0.03</b>
	Butadiene	3.64E-04	1.04E-02	7.14E-03	6.43E-04	<b>0.02</b>
	Formaldehyde	6.14E-04	1.76E-02	1.40E-02	1.45E-03	<b>0.03</b>
	Naphthalene	2.22E-05	6.36E-04	5.13E-04	5.19E-05	<b>0.001</b>
	<b>Total</b>	<b>0.18</b>	<b>2.50</b>	<b>4.26</b>	<b>0.43</b>	<b>7.36</b>

Note:

a. FAH values of 1.0 for the child age groups are conservatively used.

Sources:

- OEHHA, Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (2015), <https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf>. Accessed August 2018.
- SCAQMD, Risk Assessment Procedures for Rules 1401, 1401.1, and 212, Version 8.1, Attachment N <http://www.aqmd.gov/home/permits/risk-assessment>

Wiley Canyon Development

Freeway Health Risk Assessment for Future Project Residents

Maximum Individual Non-Cancer Impact Calculations - Sensitive Receptors (Maximum Impacted Senior Residential Receptor) (IMPACT AT ALL OTHER LOCATIONS ON THE PROJECT SITE WOULD BE LESS THAN SHOWN)

Maximum Non-cancer Chronic Hazards / Toxicological Endpoints\*

Receptor Group	Pollutant	Vehicle Class	CREL <sup>1</sup>	CONC	WFrac	CONC <sub>WF</sub>	HI		ALIM	BN	CVS	DEV	ENDC	EYE	HEM	IMMUN	KIDN	NS	REPRO	RESP	SK	
<b>Project:</b>																						
MEI - Max	<b>TOG</b>	DPM	Truck	5.00E+00	4.37E-02	1.00E+00	4.37E-02	8.73E-03	-	-	-	-	-	-	-	-	-	-	-	8.73E-03	-	-
MEI - Max		Acetaldehyde	Non-Truck	1.40E+02	9.50E-01	1.67E-02	1.59E-02	1.13E-04	-	-	-	-	-	-	-	-	-	-	-	1.13E-04	-	-
MEI - Max		Acrolein	Non-Truck	3.50E-01	9.50E-01	1.18E-03	1.12E-03	3.19E-03	-	-	-	-	-	-	-	-	-	-	-	3.19E-03	-	-
MEI - Max		Benzene	Non-Truck	3.00E+00	9.50E-01	2.38E-02	2.26E-02	7.53E-03	-	-	-	-	-	-	7.53E-03	-	-	-	-	-	-	-
MEI - Max		1,3 - Butadiene	Non-Truck	2.00E+00	9.50E-01	5.22E-03	4.95E-03	2.48E-03	-	-	-	2.48E-03	-	-	-	-	-	-	2.48E-03	-	-	-
MEI - Max		Formaldehyde	Non-Truck	9.00E+00	9.50E-01	4.08E-02	3.88E-02	4.31E-03	-	-	-	-	-	-	-	-	-	-	-	4.31E-03	-	-
MEI - Max		Napthalene	Non-Truck	9.00E+00	9.50E-01	6.53E-04	6.20E-04	6.89E-05	-	-	-	-	-	-	-	-	-	-	-	6.89E-05	-	-
									<b>Total Risk</b>			0.003		0.008					0.003	0.017		
									<b>Threshold</b>			1.00		1.00					1.00	1.00		
									<b>Over?</b>			NO		NO					NO	NO		

Notes:

- California Air Resources Board, "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values," "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs," "OEHHA/ARB Approved Acute Reference Exposure Levels and Target Organs," and "OEHHA/ARB Approved 8-Hour Reference Exposure Levels and Target Organs," <https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable.pdf>. Tables last updated: September 19, 2019. Downloaded 8/6/2020.

Source: ESA, 2020

Where:

CONC <sub>WF</sub>	Pollutant Concentration (µg/m <sup>3</sup> ) multiplied by the weight fraction
CREL	Chronic Reference Exposure Level
HI	Hazard Index
MEI	Maximally Exposed Individual
WFrac	Weight fraction of speciated component

\* Key to Toxicological Endpoints

ALIM	Alimentary Tract	EYE	Eye	NS	Nervous System
BN	Bone	HEM	Hematologic System	REPRO	Reproductive System
CVS	Cardiovascular System	IMMUN	Immune System	RESP	Respiratory System
DEV	Developmental System	KIDN	Kidney	SK	Skin
ENDC	Endocrine System				

Wiley Canyon Development

Freeway Health Risk Assessment for Future Project Residents

Maximum Individual Non-Cancer Impact Calculations - Sensitive Receptors (Maximum Impacted Senior Residential Receptor) (IMPACT AT ALL OTHER LOCATIONS ON THE PROJECT SITE WOULD BE LESS THAN SHOWN)

Maximum Non-cancer Acute 1-Hour Hazards / Toxicological Endpoints\*

Receptor Group	Pollutant	Vehicle Class	AREL-1hr <sup>1</sup>	CONC	WFrac	CONC <sub>WF</sub>	HI		ALIM	BN	CVS	DEV	ENDC	EYE	HEM	IMMUN	KIDN	NS	REPRO	RESP	SK
<b>Project:</b>																					
	<b>DPM</b>																				
MEI - Max	Arsenic	Truck	0.2	1.81E-01	5E-06	9.03E-07	4.51E-06		-	-	4.51E-06	4.51E-06	-	-	-	-	-	4.51E-06	4.51E-06	-	-
MEI - Max	Chlorine	Truck	210	1.81E-01	0.00034	6.21E-05	2.96E-07		-	-	-	-	-	2.96E-07	-	-	-	-	-	2.96E-07	-
MEI - Max	Copper	Truck	100	1.81E-01	2.5E-05	4.51E-06	4.51E-08		-	-	-	-	-	-	-	-	-	-	-	4.51E-08	-
MEI - Max	Manganese	Truck	—	1.81E-01	0.00004	7.22E-06	-		-	-	-	-	-	-	-	-	-	-	-	-	-
MEI - Max	Mercury	Truck	0.6	1.81E-01	0.00003	5.42E-06	9.03E-06		-	-	-	9.03E-06	-	-	-	-	-	9.03E-06	9.03E-06	-	-
MEI - Max	Nickel	Truck	0.2	1.81E-01	1.9E-05	3.43E-06	1.72E-05		-	-	-	-	-	-	-	1.72E-05	-	-	-	-	-
MEI - Max	Sulfates	Truck	120	1.81E-01	0.01743	3.15E-03	2.62E-05		-	-	-	-	-	-	-	-	-	-	-	2.62E-05	-
MEI - Max	Vanadium	Truck	30	1.81E-01	2.9E-05	5.24E-06	1.75E-07		-	-	-	-	-	1.75E-07	-	-	-	-	-	1.75E-07	-
	<b>TOG</b>																				
MEI - Max	Acetaldehyde	Truck	4.70E+02	1.00E-01	6.70E-02	6.72E-03	1.43E-05		-	-	-	-	-	1.43E-05	-	-	-	-	-	1.43E-05	-
MEI - Max	Acetaldehyde	Non-Truck	4.70E+02	5.29E+00	1.67E-02	8.84E-02	1.88E-04		-	-	-	-	-	1.88E-04	-	-	-	-	-	1.88E-04	-
MEI - Max	Acrolein	Truck	2.50E+00	1.00E-01	3.10E-04	3.11E-05	1.25E-05		-	-	-	-	-	1.25E-05	-	-	-	-	-	1.25E-05	-
MEI - Max	Acrolein	Non-Truck	2.50E+00	5.29E+00	1.18E-03	6.22E-03	2.49E-03		-	-	-	-	-	2.49E-03	-	-	-	-	-	2.49E-03	-
MEI - Max	Benzene	Truck	2.70E+01	1.00E-01	2.16E-02	2.16E-03	8.01E-05		-	-	-	8.01E-05	-	-	8.01E-05	8.01E-05	-	-	8.01E-05	-	-
MEI - Max	Benzene	Non-Truck	2.70E+01	5.29E+00	2.38E-02	1.26E-01	4.66E-03		-	-	-	4.66E-03	-	-	4.66E-03	4.66E-03	-	-	4.66E-03	-	-
MEI - Max	1,3 - Butadiene	Truck	6.60E+02	1.00E-01	2.79E-03	2.80E-04	4.24E-07		-	-	-	-	-	4.24E-07	-	-	-	-	-	4.24E-07	-
MEI - Max	1,3 - Butadiene	Non-Truck	6.60E+02	5.29E+00	5.22E-03	2.76E-02	4.18E-05		-	-	-	-	-	4.18E-05	-	-	-	-	-	4.18E-05	-
MEI - Max	Formaldehyde	Truck	5.50E+01	1.00E-01	1.35E-01	1.35E-02	2.46E-04		-	-	-	-	-	2.46E-04	-	-	-	-	-	-	-
MEI - Max	Formaldehyde	Non-Truck	5.50E+01	5.29E+00	4.08E-02	2.16E-01	3.93E-03		-	-	-	-	-	3.93E-03	-	-	-	-	-	-	-
								<b>Total Risk</b>			4.51E-06	0.005		0.007	0.005	0.005		1.35E-05	0.005	0.003	
								<b>Threshold</b>			1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
								<b>Over?</b>			NO	NO		NO	NO	NO		NO	NO	NO	

Notes:

California Air Resources Board, "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values," "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs," "OEHHA/ARB Approved Acute Reference Exposure Levels and Target Organs," and "OEHHA/ARB Approved 8-Hour Reference Exposure Levels and Target Organs."

1. <https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable.pdf>. Tables last updated: September 19, 2019. Downloaded 8/6/2020.

Source: ESA, 2020

Where:

CONC<sub>WF</sub> Pollutant Concentration (µg/m<sup>3</sup>) multiplied by the weight fraction  
 AREL-1HR Acute Reference Exposure Level (1-hr)  
 HI Hazard Index  
 MEI Maximally Exposed Individual  
 WFrac Weight fraction of species component

\* Key to Toxicological Endpoints

ALIM	Alimentary Tract	EYE	Eye	NS	Nervous System
BN	Bone	HEM	Hematologic System	REPRO	Reproductive System
CVS	Cardiovascular System	IMMUN	Immune System	RESP	Respiratory System
DEV	Developmental System	KIDN	Kidney	SK	Skin
ENDC	Endocrine System				

Wiley Canyon Development

Freeway Health Risk Assessment for Future Project Residents

Maximum Individual Non-Cancer Impact Calculations - Sensitive Receptors (Maximum Impacted Senior Residential Receptor) (IMPACT AT ALL OTHER LOCATIONS ON THE PROJECT SITE WOULD BE LESS THAN SHOWN)

Maximum Non-cancer Acute 8-Hour Hazards / Toxicological Endpoints\*

Receptor Group	Pollutant	Vehicle Class	AREL-8hr <sup>1</sup>	CONC	WFrac	CONC <sub>WF</sub>	HI		ALIM	BN	CVS	DEV	ENDC	EYE	HEM	IMMUN	KIDN	NS	REPRO	RESP	SK	
<b>Project:</b>																						
<b>DPM</b>																						
MEI - Max	Arsenic	Truck	0.015	1.10E-01	0.000005	5.51E-07	3.67E-05		-	-	3.67E-05	3.67E-05	-	-	-	-	-	3.67E-05	3.67E-05	3.67E-05	3.67E-05	
MEI - Max	Chlorine	Truck	-	1.10E-01	0.000344	3.79E-05	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
MEI - Max	Copper	Truck	-	1.10E-01	0.000025	2.76E-06	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
MEI - Max	Manganese	Truck	0.170	1.10E-01	0.00004	4.41E-06	2.59E-05		-	-	-	-	-	-	-	-	-	2.59E-05	-	-	-	
MEI - Max	Mercury	Truck	0.060	1.10E-01	0.00003	3.31E-06	5.51E-05		-	-	-	5.51E-05	-	-	-	-	5.51E-05	5.51E-05	5.51E-05	-	-	
MEI - Max	Nickel	Truck	0.060	1.10E-01	0.000019	2.09E-06	3.49E-05		-	-	-	-	-	-	-	3.49E-05	-	-	3.49E-05	-	-	
MEI - Max	Sulfates	Truck	-	1.10E-01	0.017429	1.92E-03	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
MEI - Max	Vanadium	Truck	-	1.10E-01	0.000029	3.20E-06	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>TOG</b>																						
MEI - Max	Acetaldehyde	Truck	3.00E+02	6.05E-02	6.70E-02	4.06E-03	1.35E-05		-	-	-	-	-	-	-	-	-	-	-	1.35E-05	-	
MEI - Max	Acetaldehyde	Non-Truck	3.00E+02	2.75E+00	1.67E-02	4.59E-02	1.53E-04		-	-	-	-	-	-	-	-	-	-	-	1.53E-04	-	
MEI - Max	Acrolein	Truck	7.00E-01	6.05E-02	3.10E-04	1.88E-05	2.68E-05		-	-	-	-	-	-	-	-	-	-	-	2.68E-05	-	
MEI - Max	Acrolein	Non-Truck	7.00E-01	2.75E+00	1.18E-03	3.23E-03	4.62E-03		-	-	-	-	-	-	-	-	-	-	-	4.62E-03	-	
MEI - Max	Benzene	Truck	3.00E+00	6.05E-02	2.16E-02	1.30E-03	4.35E-04		-	-	-	-	-	-	4.35E-04	-	-	-	-	-	-	
MEI - Max	Benzene	Non-Truck	3.00E+00	2.75E+00	2.38E-02	6.54E-02	2.18E-02		-	-	-	-	-	-	2.18E-02	-	-	-	-	-	-	
MEI - Max	1,3 - Butadiene	Truck	9.00E+00	6.05E-02	2.79E-03	1.69E-04	1.88E-05		-	-	-	1.88E-05	-	-	-	-	-	-	1.88E-05	-	-	
MEI - Max	1,3 - Butadiene	Non-Truck	9.00E+00	2.75E+00	5.22E-03	1.44E-02	1.59E-03		-	-	-	1.59E-03	-	-	-	-	-	-	1.59E-03	-	-	
MEI - Max	Formaldehyde	Truck	9.00E+00	6.05E-02	1.35E-01	8.16E-03	9.07E-04		-	-	-	-	-	-	-	-	-	-	-	9.07E-04	-	
MEI - Max	Formaldehyde	Non-Truck	9.00E+00	2.75E+00	4.08E-02	1.12E-01	1.25E-02		-	-	-	-	-	-	-	-	-	-	-	1.25E-02	-	
<b>Total Risk Threshold</b>											3.67E-05	0.002			0.022	3.49E-05	5.51E-05	1.18E-04	0.002	0.018	3.67E-05	
<b>Over?</b>											NO	NO			NO	NO	NO	NO	NO	NO	NO	NO

Notes: California Air Resources Board, "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values," "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs," "OEHHA/ARB Approved Acute Reference Exposure Levels and Target Organs," and "OEHHA/ARB Approved 8-Hour Reference Exposure Levels and Target Organs,"

1. <https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable.pdf>. Tables last updated: September 19, 2019. Downloaded 8/6/2020.

Source: ESA, 2020

Where:

CONC<sub>WF</sub> Pollutant Concentration (µg/m<sup>3</sup>) multiplied by the weight fraction  
 AREL-8HR Acute Reference Exposure Level (8-hr)  
 HI Hazard Index  
 MEI Maximally Exposed Individual  
 WFrac Weight fraction of speciated component

\* Key to Toxicological Endpoints

ALIM	Alimentary Tract	EYE	Eye	NS	Nervous System
BN	Bone	HEM	Hematologic System	REPRO	Reproductive System
CVS	Cardiovascular System	IMMUN	Immune System	RESP	Respiratory System
DEV	Developmental System	KIDN	Kidney	SK	Skin
ENDC	Endocrine System				

Wiley Canyon Development

Freeway Health Risk Assessment for Future Project Residents

Diesel Exhaust Health Risk Factors and Acute Speciation

Pollutant	CAS Number	CPF <sup>1</sup> (mg/kg-day) <sup>-1</sup>	Chronic <sup>1</sup>		Acute (1-Hour) <sup>1</sup>		Acute (8-Hour) <sup>1</sup>		Weight Fraction <sup>2</sup>
			REL (µg/m <sup>3</sup> )	Target Organ*	REL (µg/m <sup>3</sup> )	Target Organ*	REL (µg/m <sup>3</sup> )	Target Organ*	
DPM	9901	1.1	5	RESP	—	—	—	—	—
<u>Particulates</u>									<u>PM10 Fraction</u>
Arsenic	7440382				0.2	CVS, DEV, NS, REPRO	0.015	CVS, DEV, NS, REPRO, RESP, SK	0.000005
Chlorine	7782505				210	EYE, RESP	—	—	0.000344
Copper	7440508				100	RESP	—	—	0.000025
Manganese	7439965				—	—	0.17	NS	0.000040
Mercury	7439976				0.6	DEV, NS, REPRO	0.06	DEV, KIDN, NS, REPRO	0.000030
Nickel	7440020				0.2	IMMUN	0.06	IMMUN, RESP	0.000019
Sulfates	9960				120	RESP	—	—	0.017429
Vanadium	7440622				30	EYE, RESP	—	—	0.000029

Sources:

1. California Air Resources Board, "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values," "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs," "OEHHA/ARB Approved Acute Reference Exposure Levels and Target Organs," and "OEHHA/ARB Approved 8-Hour Reference Exposure Levels and Target Organs," <https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/totables.pdf>; <https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable.pdf>. Tables last updated: September 19, 2019. Downloaded 8/6/2020.
2. California Air Resources Board, Speciation Profiles Used in ARB Modeling, "CHEM-Chemical Species Data for Source Categories," "PMPROF-Particulate Matter Chemical Profiles for Source Categories," and "PMPROF\_REF-Reference Number for PM Profiles," (Profile 425), <https://www.arb.ca.gov/ei/speciate/speciate.htm>. Downloaded 8/6/2020.

\* Key to Toxicological Endpoints

ALIM	Alimentary Tract	IMMUN	Immune System
BN	Bone	KIDN	Kidney
CVS	Cardiovascular System	NS	Nervous System
DEV	Developmental System	REPRO	Reproductive System
ENDC	Endocrine System	RESP	Respiratory System
EYE	Eye	SK	Skin
HEM	Hematologic System		



Wiley Canyon Development

Freeway Health Risk Assessment for Future Project Residents

Mobile Source Air Toxics TOG Exhaust Speciation and Health Risk Factors

Pollutant	CAS Number	CPF (mg/kg-day) <sup>-1</sup>	Chronic		Acute (1-Hour)		Acute (8-Hour)	
			REL (µg/m <sup>3</sup> )	Target Organ*	REL (µg/m <sup>3</sup> )	Target Organ*	REL (µg/m <sup>3</sup> )	Target Organ*
<i>Organics</i>								
Acetaldehyde	75-07-0	0.01	140	RESP	470	EYE, RESP	300	RESP
Acrolein	107-02-8	—	0.35	RESP	2.5	EYE, RESP	0.7	RESP
Benzene	71-43-2	0.1	3	HEM	27	DEV, HEM, IMMUN, REPRO	3	HEM
1,3-Butadiene	106-99-0	0.6	2	DEV, REPRO	660	DEV, REPRO	9	DEV, REPRO
Formaldehyde	50-00-0	0.021	9	RESP	55	EYE	9	RESP
Naphthalene	91-20-3	0.12	9	RESP	—	—	—	—

Sources:

California Air Resources Board, "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values," "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs," "OEHHA/ARB Approved Acute Reference Exposure Levels and Target Organs," and "OEHHA/ARB Approved 8-Hour Reference Exposure Levels and Target Organs," <https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/totables.pdf>; <https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable.pdf>.  
 Tables last updated: September 19, 2019. Downloaded 8/6/2020.

\* Key to Toxicological Endpoints

ALIM	Alimentary Tract	IMMUN	Immune System
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DEV	Developmental System	REPRO	Reproductive System
ENDC	Endocrine System	RESP	Respiratory System
EYE	Eye	SK	Skin
HEM	Hematologic System		

Wiley Canyon Development

Freeway Health Risk Assessment for Future Project Residents  
Mobile Source Air Toxics - Organic Compounds (Fraction of TOG)

CT-EMFAC Version: 6.0.0.18677 (Available: Caltrans, CT-EMFAC, [http://www.caltrans.ca.gov/hq/env/air/pages/ctemfac\\_license.htm](http://www.caltrans.ca.gov/hq/env/air/pages/ctemfac_license.htm))  
 Run Date: 7/21/2020  
 Area: Los Angeles (SC)  
 Analysis Year: 2020, 2030, 2040, 2050  
 Season: Annual

*Analysis  
Conservatively  
uses the  
Maximum Fraction  
in this Column  
↓*

Trucks (g/mi)

Pollutant Name	5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	70 mph	75 mph
<b>2020</b>															
TOG	1.0482	0.8099	0.5243	0.3486	0.2568	0.1956	0.1510	0.1185	0.0951	0.0786	0.0676	0.0650	0.0684	0.0709	0.0709
Benzene	0.0210	0.0162	0.0105	0.0070	0.0052	0.0040	0.0031	0.0024	0.0020	0.0016	0.0014	0.0014	0.0015	0.0015	0.0015
Acrolein	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Acetaldehyde	0.0690	0.0543	0.0350	0.0231	0.0170	0.0129	0.0099	0.0077	0.0061	0.0049	0.0042	0.0040	0.0040	0.0041	0.0041
Formaldehyde	0.1390	0.1093	0.0705	0.0466	0.0343	0.0261	0.0200	0.0155	0.0123	0.0099	0.0085	0.0080	0.0082	0.0084	0.0084
Butadiene	0.0023	0.0017	0.0011	0.0008	0.0006	0.0004	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Naphthalene	0.0009	0.0007	0.0004	0.0003	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
POM	0.0015	0.0011	0.0007	0.0005	0.0004	0.0003	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

<b>2030</b>															
TOG	0.6711	0.5285	0.3479	0.2337	0.1690	0.1255	0.0938	0.0708	0.0539	0.0417	0.0329	0.0298	0.0305	0.0310	0.0310
Benzene	0.0134	0.0106	0.0070	0.0047	0.0034	0.0025	0.0019	0.0014	0.0011	0.0009	0.0007	0.0007	0.0007	0.0007	0.0007
Acrolein	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Acetaldehyde	0.0471	0.0374	0.0246	0.0166	0.0120	0.0089	0.0067	0.0050	0.0038	0.0029	0.0024	0.0023	0.0023	0.0023	0.0023
Formaldehyde	0.0945	0.0751	0.0494	0.0332	0.0240	0.0179	0.0134	0.0101	0.0076	0.0059	0.0049	0.0045	0.0046	0.0046	0.0046
Butadiene	0.0013	0.0011	0.0007	0.0005	0.0003	0.0003	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Naphthalene	0.0006	0.0005	0.0003	0.0002	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
POM	0.0008	0.0006	0.0004	0.0003	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000

<b>2040</b>															
TOG	0.6638	0.5252	0.3458	0.2322	0.1675	0.1240	0.0923	0.0691	0.0521	0.0396	0.0305	0.0271	0.0274	0.0277	0.0277
Benzene	0.0132	0.0105	0.0069	0.0046	0.0034	0.0025	0.0019	0.0014	0.0011	0.0008	0.0007	0.0006	0.0006	0.0006	0.0006
Acrolein	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Acetaldehyde	0.0473	0.0377	0.0248	0.0167	0.0120	0.0089	0.0066	0.0050	0.0038	0.0028	0.0024	0.0022	0.0022	0.0022	0.0022
Formaldehyde	0.0948	0.0755	0.0497	0.0334	0.0241	0.0179	0.0133	0.0100	0.0075	0.0057	0.0047	0.0043	0.0043	0.0044	0.0044
Butadiene	0.0013	0.0010	0.0007	0.0005	0.0003	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Naphthalene	0.0006	0.0005	0.0003	0.0002	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
POM	0.0007	0.0006	0.0004	0.0003	0.0002	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

<b>2050</b>															
TOG	0.6638	0.5263	0.3484	0.2353	0.1699	0.1256	0.0933	0.0697	0.0523	0.0396	0.0303	0.0267	0.0269	0.0271	0.0271
Benzene	0.0132	0.0105	0.0070	0.0047	0.0034	0.0025	0.0019	0.0014	0.0011	0.0008	0.0007	0.0006	0.0006	0.0006	0.0006
Acrolein	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Acetaldehyde	0.0475	0.0378	0.0251	0.0169	0.0122	0.0091	0.0067	0.0050	0.0038	0.0029	0.0023	0.0021	0.0021	0.0021	0.0021
Formaldehyde	0.0951	0.0758	0.0502	0.0339	0.0245	0.0182	0.0135	0.0101	0.0076	0.0057	0.0047	0.0043	0.0043	0.0043	0.0043
Butadiene	0.0013	0.0010	0.0007	0.0005	0.0003	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Naphthalene	0.0006	0.0005	0.0003	0.0002	0.0002	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
POM	0.0007	0.0006	0.0004	0.0003	0.0002	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Speciated Fraction - Weighted Average (2022, 2022-2023)																Max Fraction	
TOG	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	
Benzene	2.004%	2.003%	2.006%	2.011%	2.016%	2.022%	2.029%	2.041%	2.053%	2.066%	2.133%	2.157%	2.153%	2.151%	2.151%	2.151%	2.157%
Acrolein	0.012%	0.010%	0.010%	0.011%	0.012%	0.012%	0.013%	0.015%	0.017%	0.020%	0.025%	0.028%	0.029%	0.031%	0.031%	0.031%	0.031%
Acetaldehyde	6.582%	6.703%	6.677%	6.636%	6.630%	6.614%	6.568%	6.491%	6.373%	6.207%	6.179%	6.072%	5.907%	5.796%	5.796%	5.796%	6.703%
Formaldehyde	13.262%	13.490%	13.444%	13.369%	13.359%	13.330%	13.249%	13.107%	12.890%	12.582%	12.556%	12.373%	12.052%	11.841%	11.841%	11.841%	13.490%
Butadiene	0.218%	0.213%	0.215%	0.218%	0.219%	0.221%	0.225%	0.229%	0.237%	0.245%	0.262%	0.271%	0.275%	0.279%	0.279%	0.279%	0.279%
Naphthalene	0.085%	0.085%	0.085%	0.085%	0.085%	0.085%	0.085%	0.084%	0.084%	0.083%	0.084%	0.083%	0.082%	0.082%	0.082%	0.082%	0.085%
POM	0.141%	0.142%	0.140%	0.138%	0.139%	0.142%	0.146%	0.150%	0.157%	0.163%	0.175%	0.178%	0.177%	0.175%	0.175%	0.175%	0.178%

Speciated Fraction - Weighted Average (2024-2037)																Max Fraction	
TOG	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	
Benzene	2.000%	2.000%	2.002%	2.006%	2.010%	2.016%	2.023%	2.034%	2.046%	2.061%	2.178%	2.235%	2.230%	2.227%	2.227%	2.227%	2.235%
Acrolein	0.008%	0.006%	0.007%	0.007%	0.007%	0.008%	0.009%	0.010%	0.011%	0.014%	0.018%	0.020%	0.020%	0.023%	0.023%	0.023%	0.023%
Acetaldehyde	6.832%	6.920%	6.910%	6.891%	6.893%	6.889%	6.867%	6.825%	6.757%	6.652%	6.871%	6.923%	6.783%	6.690%	6.690%	6.690%	6.923%
Formaldehyde	13.734%	13.898%	13.882%	13.848%	13.853%	13.846%	13.809%	13.734%	13.610%	13.421%	13.881%	14.004%	13.739%	13.562%	13.562%	13.562%	14.004%
Butadiene	0.208%	0.205%	0.206%	0.207%	0.208%	0.210%	0.213%	0.216%	0.221%	0.228%	0.248%	0.258%	0.262%	0.265%	0.265%	0.265%	0.265%
Naphthalene	0.086%	0.087%	0.087%	0.087%	0.087%	0.087%	0.087%	0.087%	0.087%	0.086%	0.090%	0.091%	0.089%	0.090%	0.090%	0.090%	0.091%
POM	0.129%	0.129%	0.128%	0.126%	0.127%	0.128%	0.131%	0.134%	0.137%	0.141%	0.153%	0.157%	0.156%	0.156%	0.156%	0.156%	0.157%

Speciated Fraction - Weighted Average (2038-2051)																Max Fraction	
TOG	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	
Benzene	1.996%	1.996%	1.998%	2.000%	2.004%	2.010%	2.016%	2.026%	2.039%	2.055%	2.225%	2.322%	2.316%	2.316%	2.316%	2.316%	2.322%
Acrolein	0.003%	0.003%	0.003%	0.003%	0.003%	0.003%	0.003%	0.003%	0.004%	0.006%	0.007%	0.008%	0.011%	0.012%	0.012%	0.012%	0.012%
Acetaldehyde	7.115%	7.160%	7.165%	7.167%	7.177%	7.186%	7.192%	7.191%	7.183%	7.161%	7.664%	7.915%	7.830%	7.769%	7.769%	7.769%	7.915%
Formaldehyde	14.265%	14.350%	14.360%	14.365%	14.385%	14.405%	14.418%	14.423%	14.412%	14.375%	15.397%	15.911%	15.749%	15.633%	15.633%	15.633%	15.911%
Butadiene	0.197%	0.196%	0.196%	0.196%	0.197%	0.198%	0.199%	0.202%	0.204%	0.208%	0.230%	0.241%	0.245%	0.247%	0.247%	0.247%	0.247%
Naphthalene	0.088%	0.088%	0.089%	0.089%	0.089%	0.089%	0.089%	0.090%	0.090%	0.091%	0.097%	0.100%	0.098%	0.098%	0.098%	0.098%	0.100%
POM	0.113%	0.113%	0.113%	0.112%	0.113%	0.113%	0.114%	0.116%	0.118%	0.119%	0.131%	0.137%	0.136%	0.135%	0.135%	0.135%	0.137%

Wiley Canyon Development

Freeway Health Risk Assessment for Future Project Residents  
Mobile Source Air Toxics - Organic Compounds (Fraction of TOG)

CT-EMFAC Version: 6.0.0.18677 (Available: Caltrans, CT-EMFAC, [http://www.caltrans.ca.gov/hq/env/air/pages/ctemfac\\_license.htm](http://www.caltrans.ca.gov/hq/env/air/pages/ctemfac_license.htm))  
Run Date: 7/21/2020  
Area: Los Angeles (SC)  
Analysis Year: 2020, 2030, 2040, 2050  
Season: Annual

Analysis  
Conservatively  
uses the  
Maximum Fraction  
in this Column  
↓

Non-Trucks (g/mi)

Pollutant Name	5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	70 mph	75 mph
<b>2020</b>															
TOG	0.3047	0.2023	0.1317	0.0897	0.0674	0.0536	0.0448	0.0392	0.0361	0.0350	0.0357	0.0384	0.0435	0.0475	0.0475
Benzene	0.0071	0.0047	0.0031	0.0021	0.0016	0.0013	0.0011	0.0009	0.0009	0.0008	0.0008	0.0009	0.0010	0.0011	0.0011
Acrolein	0.0003	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	0.0001
Acetaldehyde	0.0046	0.0034	0.0019	0.0010	0.0007	0.0006	0.0005	0.0004	0.0004	0.0003	0.0003	0.0004	0.0004	0.0005	0.0005
Formaldehyde	0.0116	0.0083	0.0047	0.0027	0.0020	0.0016	0.0013	0.0011	0.0010	0.0010	0.0010	0.0011	0.0012	0.0014	0.0014
Butadiene	0.0015	0.0010	0.0007	0.0005	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Naphthalene	0.0002	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
POM	0.0003	0.0002	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>2030</b>															
TOG	0.1792	0.1173	0.0769	0.0528	0.0395	0.0313	0.0260	0.0228	0.0210	0.0204	0.0208	0.0224	0.0254	0.0276	0.0276
Benzene	0.0043	0.0028	0.0019	0.0013	0.0010	0.0008	0.0006	0.0006	0.0005	0.0005	0.0005	0.0006	0.0006	0.0007	0.0007
Acrolein	0.0002	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Acetaldehyde	0.0022	0.0016	0.0009	0.0005	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Formaldehyde	0.0058	0.0041	0.0024	0.0014	0.0010	0.0008	0.0007	0.0006	0.0005	0.0005	0.0005	0.0005	0.0006	0.0007	0.0007
Butadiene	0.0009	0.0006	0.0004	0.0003	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002
Naphthalene	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
POM	0.0002	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>2040</b>															
TOG	0.1442	0.0940	0.0620	0.0428	0.0320	0.0254	0.0211	0.0185	0.0171	0.0166	0.0170	0.0184	0.0209	0.0227	0.0227
Benzene	0.0036	0.0023	0.0015	0.0011	0.0008	0.0006	0.0005	0.0005	0.0004	0.0004	0.0004	0.0005	0.0005	0.0006	0.0006
Acrolein	0.0002	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Acetaldehyde	0.0016	0.0011	0.0006	0.0004	0.0003	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002
Formaldehyde	0.0044	0.0031	0.0018	0.0011	0.0008	0.0006	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	0.0005	0.0005
Butadiene	0.0008	0.0005	0.0003	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Naphthalene	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
POM	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>2050</b>															
TOG	0.1360	0.0884	0.0586	0.0408	0.0305	0.0241	0.0201	0.0177	0.0163	0.0159	0.0162	0.0175	0.0199	0.0216	0.0216
Benzene	0.0034	0.0022	0.0015	0.0010	0.0008	0.0006	0.0005	0.0004	0.0004	0.0004	0.0004	0.0005	0.0005	0.0006	0.0006
Acrolein	0.0002	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Acetaldehyde	0.0013	0.0009	0.0005	0.0003	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Formaldehyde	0.0038	0.0026	0.0016	0.0010	0.0007	0.0006	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	0.0005
Butadiene	0.0008	0.0005	0.0003	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Naphthalene	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
POM	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Speciated Fraction - Weighted Average (2022, 2022-2023)

	TOG	Benzene	Acrolein	Acetaldehyde	Formaldehyde	Butadiene	Naphthalene	POM	Max Fraction
TOG	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%
Benzene	2.328%	2.320%	2.336%	2.356%	2.360%	2.360%	2.363%	2.367%	2.371%
Acrolein	0.106%	0.103%	0.108%	0.114%	0.114%	0.114%	0.116%	0.115%	0.116%
Acetaldehyde	1.515%	1.670%	1.407%	1.084%	1.048%	1.057%	1.045%	1.023%	0.997%
Formaldehyde	3.795%	4.085%	3.593%	2.989%	2.923%	2.940%	2.919%	2.874%	2.828%
Butadiene	0.488%	0.480%	0.493%	0.511%	0.514%	0.513%	0.514%	0.515%	0.518%
Naphthalene	0.064%	0.065%	0.065%	0.062%	0.062%	0.063%	0.063%	0.064%	0.063%
POM	0.109%	0.112%	0.106%	0.099%	0.098%	0.099%	0.098%	0.097%	0.097%

Speciated Fraction - Weighted Average (2024-2037)

	TOG	Benzene	Acrolein	Acetaldehyde	Formaldehyde	Butadiene	Naphthalene	POM	Max Fraction
TOG	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%
Benzene	2.374%	2.367%	2.382%	2.402%	2.406%	2.407%	2.410%	2.415%	2.417%
Acrolein	0.111%	0.109%	0.113%	0.118%	0.118%	0.119%	0.120%	0.119%	0.121%
Acetaldehyde	1.342%	1.477%	1.253%	0.977%	0.941%	0.944%	0.933%	0.912%	0.890%
Formaldehyde	3.479%	3.730%	3.311%	2.796%	2.728%	2.736%	2.717%	2.678%	2.632%
Butadiene	0.508%	0.501%	0.513%	0.528%	0.531%	0.532%	0.534%	0.534%	0.538%
Naphthalene	0.066%	0.067%	0.066%	0.065%	0.064%	0.066%	0.066%	0.065%	0.065%
POM	0.103%	0.105%	0.101%	0.096%	0.094%	0.095%	0.095%	0.094%	0.093%

Speciated Fraction - Weighted Average (2038-2051)

	TOG	Benzene	Acrolein	Acetaldehyde	Formaldehyde	Butadiene	Naphthalene	POM	Max Fraction
TOG	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%
Benzene	2.471%	2.465%	2.480%	2.498%	2.504%	2.508%	2.510%	2.513%	2.513%
Acrolein	0.121%	0.119%	0.122%	0.126%	0.128%	0.129%	0.127%	0.129%	0.131%
Acetaldehyde	1.108%	1.208%	1.044%	0.842%	0.803%	0.795%	0.784%	0.765%	0.742%
Formaldehyde	3.056%	3.242%	2.936%	2.561%	2.487%	2.476%	2.453%	2.416%	2.376%
Butadiene	0.546%	0.542%	0.551%	0.563%	0.566%	0.569%	0.571%	0.570%	0.571%
Naphthalene	0.071%	0.072%	0.072%	0.072%	0.071%	0.071%	0.071%	0.070%	0.072%
POM	0.088%	0.089%	0.087%	0.085%	0.084%	0.084%	0.085%	0.082%	0.083%

