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# Air Quality and Greenhouse Gas Technical Report

Corby Battery Energy Storage System Project Solano County, California

May 2025



# **Prepared for**

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# **TABLE OF CONTENTS**

| 1.0 | INTE | RODUCT  | FION   | 1   |
|-----|------|---------|--|-----|
|     | 1.1  | Purpo   | se   | 1   |
|     | 1.2  | Projec  | t Description  | 1   |
|     | 1.3  | Regio   | nal and Local Setting  | 2   |
| 2.0 | AIR  | QUALIT  | Υ  | 2   |
|     | 2.1  | Enviro  | onmental Setting   | 2   |
|     |      | 2.1.1   | Climate and Topography   | 2   |
|     |      | 2.1.2   | Pollutants and Effects   | 3   |
|     |      | 2.1.3   | Valley Fever   | 4   |
|     |      | 2.1.4   | Sensitive Receptors  | 4   |
|     | 2.2  | Air Qu  | ality Regulatory Setting   | 5   |
|     |      | 2.2.1   | Federal Regulations  | 5   |
|     |      | 2.2.2   | State Regulations  | 6   |
|     |      | 2.2.3   | Regional and Local Regulations   | 10  |
|     | 2.3  | Regio   | nal And Local Air Quality Conditions   | 12  |
|     |      | 2.3.1   | Sacramento Valley Air Basin Attainment Status  | 12  |
|     |      | 2.3.2   | Local Ambient Air Quality  | 13  |
|     | 2.4  | Signifi | cance Criteria and Methodology   | 14  |
|     |      | 2.4.1   | Thresholds of Significance   | 14  |
|     |      | 2.4.2   | Approach and Methodology   | 15  |
|     | 2.5  | Impac   | t Analysis   | 20  |
|     |      | 2.5.1   | Would the Project conflict with or obstruct implementation of the applicable a quality plan?   |     |
|     |      | 2.5.2   | Would the project violate any air quality standard or contribute substantially to existing or projected air quality violation?   |     |
|     |      | 2.5.3   | Would the project result in a cumulatively considerable net increase of any crit pollutant for which the project region is in nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions wheexceed quantitative thresholds for O <sub>3</sub> precursors)? | ich |
|     |      | 2.5.4   | Would the project expose sensitive receptors to substantial pollutant concentrations?  | 24  |
|     |      | 2.5.5   | Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?   | 25  |
| 3.0 | GRE  | ENHOU   | SE GAS EMISSIONS   | 26  |

| 3.1       | Enviro  | onmental Setting   | 26            |
|-----------|---------|--|---------------|
|           | 3.1.1   | The Greenhouse Effect  | 26            |
|           | 3.1.2   | Greenhouse Gases and Global Warming Potential  | 26            |
| 3.2       | Air Qu  | ality Regulatory Setting   | 27            |
|           | 3.2.1   | Federal Regulations  | 27            |
|           | 3.2.2   | State Regulations  | 29            |
|           | 3.2.3   | Regional and Local Regulations   | 32            |
| 3.3       | Signifi | icance Criteria and Methodology  | 33            |
|           | 3.3.1   | Thresholds of Significance   | 33            |
|           | 3.3.2   | Approach and Methodology   |               |
| 3.4       | Impac   | t Analysis   |               |
|           | 3.4.1   | Would the Project generate greenhouse gas emissions, either directly of that may have a significant impact on the environment? | r indirectly, |
|           | 3.4.2   | Would the Project conflict with or obstruct implementation of the appli quality plan?  |               |
| 4.0 REF   | ERENCE  | ES CITED   | 38            |
|           |         |  |               |
|           |         | TABLES   |               |
| Table 1.  | Stat    | e and National Ambient Air Quality Standards   | 7             |
| Table 2.  | San     | Joaquin Valley Attainment Status (Solano County)   | 13            |
| Table 3.  | Loca    | al Ambient Air Quality Monitoring Data   | 14            |
| Table 4.  |         | QMD Air Quality Thresholds of Significance – Criteria Pollutants   |               |
| Table 5.  | Con     | struction Schedule   | 17            |
| Table 6.  | Con     | struction Equipment and Vehicle Trips Per Phase  | 17            |
| Table 7.  | Esti    | mated Maximum Annual Construction Criteria Air Pollutant Emissions   | 21            |
| Table 8.  | Esti    | mated Maximum Daily Construction Criteria Air Pollutant Emissions  | 22            |
| Table 9.  | Esti    | mated Maximum Annual Operational Criteria Air Pollutant Emissions  | 22            |
| Table 10. | Esti    | mated Maximum Daily Operational Criteria Air Pollutant Emissions   | 22            |
| Table 11. | Con     | struction Impacts  | 23            |
| Table 12. | Ope     | rations Impacts  | 23            |
| Table 13. | Hea     | lth Risk Assessment for Mitigated Construction Emissions   | 25            |
| Table 14. | Esti    | mated Annual Construction Greenhouse Gas Emissions   | 35            |
| Table 15. | Esti    | mated Annual Operational Greenhouse Gas Emissions  | 36            |
| Table 16. | Esti    | mated Indirect Operational Greenhouse Gas Emissions <sup>1</sup>   | 37            |

# **FIGURES**

Figure 1 Project Layout

# **ATTACHMENTS**

Attachment A: CalEEMOD

Attachment B: Dispersion Modeling Attachment C: Health Risk Assessment

# **ACRONYMS AND ABBREVIATIONS**

AB Assembly Bill

ABAG Association of Bay Area Governments

BESS battery energy storage system

CAA Clean Air Act

CAAQS California Ambient Air Quality Standards

CalEEMod California Emissions Estimator Model

CAPCOA California Air Pollution Control Officers Association

CARB California Air Resources Board

CAP Climate Action Plan

CCAA California Clean Air Act

CCR California Code of Regulations

CEC California Energy Commission

CEQA California Environmental Quality Act

CH<sub>4</sub> methane

CO Carbon monoxide
CO carbon dioxide

CO<sub>2e</sub> CO<sub>2</sub> equivalent

DPM diesel particulate matter

EPA U.S. Environmental Protection Agency

FR Federal Register

gen-tie interconnection generation tie

GHG greenhouse gas

GWP global warming potential
HAP hazardous air pollutant

HFC hydrofluorocarbon

HRA health risk assessment

I-80 Interstate 80

kV kilovolt

MEI maximally exposed individual

MPO metropolitan planning organization

MT metric ton

MTC Metropolitan Transportation Commission

MW megawatt

MWh megawatt-hour

NAAQS National Ambient Air Quality Standards

 $N_2O$  nitrous oxide  $NO_2$  nitrogen dioxide  $NO_X$  nitrogen oxides

 $O_3$  ozone

O&M operations and maintenance

OEHHA Office of Environmental Health Hazard Assessment

Pb lead

PFC perfluorocarbons

PG&E Pacific Gas and Electric

 $PM_{10}$  particulate matter less than 10 microns  $PM_{2.5}$  particulate matter less than 2.5 microns

Project Corby Battery Energy Storage System Project

RACT Reasonably Available Control Technology

ROG reactive organic gases

RPS Renewable Portfolio Standard

SB Senate Bill

SF<sub>6</sub> sulfur hexafluoride

SFNA Sacramento Federal Non-attainment Area

SIL Significant Impact Level

SIP State Implementation Plan

SMAQMD Sacramento Metropolitan Air Quality Management District

SO<sub>2</sub> sulfur dioxide

SVAB Sacramento Valley Air Basin

TAC Toxic Air Contaminants

TMS thermal management system VOC volatile organic compound

YSAQMD Yolo Solano Air Quality Management District

# 1.0 INTRODUCTION

# 1.1 Purpose

Tetra Tech has prepared this air quality and greenhouse gas (GHG) analysis report to evaluate potential air quality and GHG impacts associated with the proposed Corby Battery Energy Storage System Project (Project). This analysis was prepared in accordance with the Yolo Solano Air Quality Management District (YSAQMD) *Handbook for Assessing and Mitigating Air Quality Impacts* (YSAQMD 2007). This report has been prepared to support an environmental review with the California Energy Commission (CEC) as lead agency for the Project. The California Air Resources Board (CARB) and the YSAQMD's methods, standards, and significance thresholds used in this analysis are considered appropriate for determining whether impacts require mitigation measures to be implemented.

The California Emissions Estimator Model (CalEEMod) was used to calculate the emissions associated with both construction activities and operations and maintenance of the facility. The total Project construction and operational emissions were compared to the YSAQMD threshold criteria to make a determination of significance.

For the construction phase of the Project, emissions from the combustion of fuel in grading and construction equipment were calculated based on the equipment used, length of time for a specific construction task, equipment power type (gasoline or diesel engine), horsepower, and percentage of time in use as estimated by the Project, as well as equipment emission factors, and load factors. Motor vehicle exhaust and fugitive dust emissions associated with worker commutes and travel were calculated based on available information regarding these activities. Fugitive dust (particulate matter less than 10 microns [PM<sub>10</sub>] and less than 2.5 microns [PM<sub>2.5</sub>]) emissions would result from wind erosion of exposed soil and soil storage piles, grading operations, and vehicles traveling on paved and unpaved roads and surfaces. These emissions were calculated based on U.S. Environmental Protection Agency (EPA) emissions factors contained in CalEEMod and construction information provided to Tetra Tech by the Project (EPA 2006a, 2006b, 2011).

For the Project operation and maintenance phase, motor vehicle exhaust emissions were calculated for future conditions, utilizing information on facility operations provided to Tetra Tech by the Project.

A discussion of GHGs and their potential effects on global climate change is also included. Emissions of carbon dioxide ( $CO_2$ ), a key GHG identified in Assembly Bill (AB) 32, and other GHGs such as methane ( $CH_4$ ) and nitrous oxide ( $N_2O$ ) from direct and indirect Project-related sources were calculated. Tetra Tech calculated the construction-related GHG emissions commensurate with provided Project-specific information. Standard measures for construction activities were identified and incorporated as part of the Project's standard conditions. Potential GHG impacts and benefits associated with the proposed energy storage Project were calculated and compared to the YSAQMD threshold criteria to make a determination of significance.

# 1.2 Project Description

The Project consists of constructing and operating a 300-megawatt (MW), 1,200-megawatt-hour (MWh) battery energy storage system (BESS), associated Project substation, inverters, and other

ancillary facilities, such as fencing, sound barrier, roads, stormwater retention basins, groundwater well, water tank, storage containers, and a supervisory control and data acquisition system. The Project will connect to the Pacific Gas and Electric (PG&E) Vaca-Dixon Substation, northwest of the Project site and across Interstate 80 (I-80), via a 1.1-mile-long 230-kilovolt (kV) generation tie (gen-tie) line, portions of which would be installed overhead and underground.

Site access will be provided via new connections to Byrnes Road adjacent to the eastern Project site boundary. Internal site maintenance roads will also be installed to allow access throughout the Project site during operations and maintenance (O&M). Once constructed, the Project will operate 7 days per week, 365 days per year. The facility will be operated by Corby Energy Storage, LLC remotely. Only occasional, on-site maintenance is expected to be required following commissioning, such as conducting routine visual inspections, executing minor repairs, and responding to needs for plant adjustment.

# 1.3 Regional and Local Setting

The Project site includes the entirety of the Project parcel (Assessor's Parcel Number 0141-030-090) totaling approximately 40.3 acres, including the BESS, Project substation, roads, security fencing, sound barrier, and drainage facilities.

The Project site is located in the northwestern corner of Section 6, Township 6 North, Range 1 East, just outside the City of Vacaville, California, U.S. Geological Survey 7.5-minute topographic quadrangle and will connect to PG&E's Vaca-Dixon Substation, northwest of the Project site and across I-80, via a 1.1-mile-long 230-kV gen-tie line, portions of which would be installed overhead and underground (see Figure 1). The Project parcel is bound on all sides by existing agricultural lands, with a rural residence located across Kilkenny Road directly to the north. Additional rural residences also exist in the project vicinity, both to the south and west of the Project site.

# 2.0 AIR QUALITY

# 2.1 Environmental Setting

# 2.1.1 Climate and Topography

The Project is located within the Sacramento Valley Air Basin (SVAB), which includes all of Shasta, Tehama, Glenn, Colusa, Butte, Sutter, Yuba, Sacramento, and Yolo Counties; the westernmost portion of Placer County; and the northeastern half of Solano County. The dimensions of the Basin are approximately 216 miles from north to south and 95 miles east to west at the widest part. The SVAB is bounded on the north and west by the Coastal Mountain Range and on the east by the southern portion of the Cascade Mountain Range and the northern portion of the Sierra Nevada Mountains.

The Sacramento Valley is in a Mediterranean Climate Zone, characterized by hot and dry summers with maximum temperatures that often exceed 100 degrees Fahrenheit, and mild winters. The Valley is often subject to temperature inversion that, coupled with topographic barriers and hot summer temperatures, create a high potential for air pollution problems.

#### 2.1.2 Pollutants and Effects

The Clean Air Act (CAA) requires EPA to set National Ambient Air Quality Standards (NAAQS) for six common air pollutants. EPA calls these "criteria" air pollutants because it regulates them by developing health-based (primary) or environmentally-based (secondary) standards. Additionally, California Ambient Air Quality Standards (CAAQS) have been established for the criteria air pollutants. California law continues to mandate CAAQS, although attainment of the NAAQS has precedence over attainment of the CAAQS due to federal penalties for failure to meet federal attainment deadlines (CARB 2024a). California law does not require that CAAQS be met by specified dates as is the case with NAAQS. Rather, it requires incremental progress toward attainment (CARB 2024a).

The six criteria air pollutants are summarized below.

**Nitrogen Oxides (NO<sub>X</sub>)** are a group of gaseous nitrogen compounds that are precursors to the formation of ozone and particulate matter. Nitrogen dioxide (NO<sub>2</sub>) and nitric oxide (NO) result primarily from the combustion of fossil fuels with ambient air. NAAQS and CAAQS have been established specifically for NO<sub>2</sub>, but not for other NO<sub>X</sub> compounds.

**Ozone** ( $O_3$ ) is a secondary pollutant that is formed from the reaction of  $NO_X$  and volatile organic compounds (VOC) precursors in the presence of sunlight. Ozone exists naturally in the stratosphere, shielding Earth from harmful ultraviolet radiation. However, at ground-level, ozone causes adverse health effects and is a major component of smog. High concentrations have been tied to respiratory ailments and cardiovascular disease, as well as damage to natural ecosystems, agricultural crops, and materials such as rubber, paint, and plastics.

**Reactive organic gases (ROG)**<sup>1</sup> are composed of hydrocarbon compounds that contribute to the formation of smog through atmospheric chemical reactions. ROG are emitted from fuel combustion and industrial and agricultural processes. A number of ROG compounds are listed under California's AB 2588 air toxics provisions.

**Particulate Matter (PM)** comprises solid particles and liquid droplets, made up of acids, organic chemicals, metals, and soil or dust particles. Particles that are 10 micrometers in aerodynamic diameter or smaller ( $PM_{10}$ ) are a potential human health concern because they can enter the lungs (i.e., inhalable PM), which can affect the heart and cause adverse health effects. They can be emitted directly to the atmosphere as well as formed in the atmosphere by chemical reactions among precursors.  $PM_{10}$  can be further categorized based on particle size:

**Fine particles** are 2.5 micrometers in aerodynamic diameter or smaller (PM<sub>2.5</sub>) and are generally emitted by combustion sources like motor vehicles, power generation facilities, industrial processes, and wood burning.

<sup>&</sup>lt;sup>1</sup> CARB defines both VOC and ROG as, "any compound of carbon excluding CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate," with the exception that VOC are compounds that participate in atmospheric photochemical reactions (CARB 2009). For the purposes of this analysis, ROG and VOC are considered comparable in terms of mass emissions. ROG is henceforth used in this report.



**Inhalable coarse particles (PM<sub>2.5</sub>-PM<sub>10</sub>)** are between 2.5 and 10 micrometers in aerodynamic diameter. Sources of emissions include roads (both unpaved and paved), farming activities, and windblown dust as well as combustion sources.

**Carbon Monoxide (CO)** is an odorless, colorless gas formed by the incomplete combustion of fuels. The main source of CO is on-road motor vehicles. Therefore, CO problems tend to be localized in urban areas rather than across the entire air basin. The combination of motor vehicle fleet turnover and progressively more stringent automotive emission controls over time have resulted in CO emissions declining for decades.

**Sulfur Dioxide (SO₂)** is a colorless gas formed by the combustion of fossil fuels that contain sulfur. The mandated use of low-sulfur fuel has reduced the emissions of this pollutant over time.

**Lead (Pb)** is a metal that is a natural constituent of air, water, and the biosphere. Sources of lead emissions include ore and metals processing and piston-engine aircraft operating on leaded aviation fuel. Other sources are waste incinerators, utilities, and lead-acid battery manufacturers. Leaded motor vehicle gasoline, previously a major source of airborne lead was phased out as result of EPA's regulatory effort to reduce ambient concentrations.

## 2.1.3 Valley Fever

Valley Fever is an infection caused by inhalation of *Coccidioides immitus* (*C. immitus* or CI) fungus spores. The fungus grows in the soil in areas of California and the southwestern United States. Fungus spores lie dormant in the soil until they are disturbed by wind, vehicles, or other ground-disturbing activities and become airborne. Agricultural workers, construction workers, and other people who are exposed to wind and dust outdoors are most prone to contracting Valley Fever. Infections can result in mild influenza-like symptoms, such as fever, cough, chest pain, muscle or joint aches, night sweats, and rash. Rarely, in more serious cases, it can infect the brain, joints, bone, skin or other organs, or cause death.

In California, the number of reported Valley Fever cases has greatly increased in recent years with the number of cases tripling from 2015 to 2019 (CDC 2022). The number of Valley Fever cases in the United States has also been steadily increasing over the past few years with a rate of 18 cases per 100,000 people in 2020, and about 20 cases per 100,000 people in 2021 (CDPH 2022).

Currently, no vaccine is available to prevent this infection, but antifungal medications are available for treatment, particularly for severe disease. Further, there is no effective way to detect and monitor CI growth patterns in the soil. Thus, controlling the growth of the fungus in the environment to reduce the risk to individuals is currently not a viable option. Even if the fungus is present in the soil, earthmoving activities may not result in an increased incidence of Valley Fever. Propagation of Coccidioides is dependent on climatic conditions, with the potential for growth and surface exposure highest following early seasonal rains and long dry spells.

## 2.1.4 Sensitive Receptors

Sensitive receptors are segments of the population most susceptible to poor air quality (i.e., children, the elderly, and those with pre-existing serious health problems related to respiratory distress). Land

uses often identified as sensitive receptors include schools, parks, playgrounds, daycare centers, nursing homes, hospitals, and residential communities. The greatest potential for exposure to air pollutants would occur during construction, when the ground would be disturbed from grading and delivery of materials. The construction emissions presented in this analysis are based on worst-case conditions, assuming maximum construction activity would occur simultaneously. In reality, exposure to emissions would vary substantially throughout construction, and would depend on the staging of the work being conducted over time, location of work relative to receptors, and weather conditions.

As stated previously, the Project parcel is bound on all sides by existing agricultural lands interspersed with sparse rural residences, the closest being located across Kilkenny Road directly to the north. Additional rural residences also exist in the project vicinity, both to the south and west of the Project site. The Project site is located approximately 250 feet southeast of the City of Vacaville jurisdictional boundary, and approximately 5 miles northeast of the city center. I-80 is approximately 0.6-mile northwest of the Project site.

Additionally, for the purpose of conducting the health risk assessment (HRA), off-site worker receptors and sensitive receptors were identified for the Project. Receptors used in the analysis are described in later sections.

# 2.2 Air Quality Regulatory Setting

Ambient air quality standards are the levels of air quality considered safe, with an adequate margin of safety, to protect public health and welfare. They are designed to protect those people most susceptible to respiratory distress (i.e., sensitive receptors), such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and people engaged in strenuous work or exercise. Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed.

The following discussion describes the regulatory authority of the federal, state, and local jurisdictions. The federal CAA, the California Clean Air Act (CCAA), and the Air Quality Management Plan, prepared and adopted by the YSAQMD, regulate air quality in the air basin. Federal and State standards are shown in Table 1, State and National Ambient Air Quality Standards.

# 2.2.1 Federal Regulations

#### 2.2.1.1 Criteria Air Pollutants

The federal CAA (42 United States Code Sections 7401-7675) is a comprehensive federal law that regulates air emissions from area, stationary, and mobile sources and requires the adoption of the NAAQS to protect public health and welfare from the effects of air pollution. The federal CAA Amendments of 1990 required that the EPA review all NAAQS with respect to health impacts and propose modifications or new rules as appropriate. In addition, the amendments of the 1990 federal CAA are associated with the attainment and maintenance of air quality standards, permits and enforcement, toxic air pollutants, acid deposition, stratospheric ozone protection, and motor vehicles and fuels.

NAAQS are currently assigned to SO<sub>2</sub>, CO, NO<sub>2</sub>, O<sub>3</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, and lead. These pollutants are designated criteria pollutants.

#### 2.2.1.2 Hazardous Air Pollutants

The 1977 federal CAA amendments required the EPA to identify National Emission Standards for Hazardous Air Pollutants (HAPs) to protect public health and welfare. HAPs include certain volatile organic compounds, pesticides, herbicides, and radionuclides that present a tangible hazard, based on scientific studies of exposure to humans and other mammals. The 1990 federal CAA Amendments, which expanded the control program for HAPs, identified 189 substances and chemical families as HAPs. Over the years, the list has been modified. Currently, there are 187 federally regulated HAPs.

# 2.2.2 State Regulations

#### 2.2.2.1 Criteria Air Pollutants

The CCAA passed by the California Legislature and signed into law by the Governor in 1988 assigns state-specific ambient air quality standards that had originally been established in part in 1959 by the California Department of Public Health. The California standards are, in most cases, more stringent than federal standards. The goal of the CCAA is to attain state air quality standards by the earliest practical date. Because California established Ambient Air Quality Standards several years before the federal action and because of unique air quality problems introduced by the restrictive dispersion meteorology in much of California, there can be a considerable difference between CAAQS and NAAQS. Those standards currently in effect in California are shown on Table 1, State and National Ambient Air Quality Standards.

The CCAA requires each air pollution control district of an air basin designated as nonattainment of state ambient air quality standards to prepare and submit a plan for attaining and maintaining state standards (specifically, an Air Quality Management Plan).

After further review of the relationship between fine particulate matter and human health effects, the CARB adopted new state standards on June 20, 2002, for PM<sub>2.5</sub>. No specific control programs are in place to achieve the more stringent standard. However, it does represent an air quality goal intended to dramatically reduce the adverse health effects from fine-particle air pollution.

Table 1. State and National Ambient Air Quality Standards

|  |                                 | CAA                         | AQS <sup>1/</sup>   | NAAQS <sup>2/</sup>                              |                                |  |  |  |
|--|---------------------------------|-----------------------------|---|--|--------------------------------|--|--|--|
| Pollutant  | Averaging Time                  | Concentration <sup>3/</sup> | Method <sup>4/</sup>  | Primary <sup>3/, 5/</sup>                        | Secondary 3,/6/                | Method <sup>7/</sup>                               |  |  |
| Ozone<br>(O <sub>3</sub> )                         | 1 Hour                          | 0.09 ppm<br>(180 µg/m³)     | Ultraviolet<br>Photometry                                       | _  | Same as<br>Primary             | Ultraviolet<br>Photometry                          |  |  |
|  | 8 Hour                          | 0.070 ppm<br>(137 µg/m³)    |   | 0.070 ppm<br>(147 µg/m³)                         | Standard                       |  |  |  |
| Respirable<br>Particulate                          | 24 Hour 50 µg/m³ Gravimetric or |                             | 150 µg/m³   | Same as  | Inertial Separation            |  |  |  |
| Particulate<br>Matter<br>(PM <sub>10</sub> )       | Annual<br>Arithmetic Mean       | 20 µg/m³                    | Beta Attenuation  | _  | Primary<br>Standard            | and Gravimetric<br>Analysis                        |  |  |
| Fine Particulate Matter (PM <sub>2.5</sub> )       | 24 Hour                         | _                           | _   | 35 μg/m³   | Same as<br>Primary<br>Standard | Inertial Separation<br>and Gravimetric<br>Analysis |  |  |
|  | Annual<br>Arithmetic Mean       | 12 μg/m³                    | Gravimetric or<br>Beta Attenuation                              | 9.0 µg/m³  | 15 μg/m³                       |  |  |  |
| Carbon<br>Monoxide<br>(CO)                         | 1 Hour                          | 20 ppm<br>(23 mg/m³)        | Non-Dispersive<br>Infrared                                      | 35 ppm<br>(40 mg/m <sup>3</sup> )                | _                              | Non-Dispersive<br>Infrared Photometry              |  |  |
|  | 8 Hour                          | 9.0 ppm<br>(10mg/m³)        | Photometry<br>(NDIR)  | 9 ppm<br>(10 mg/m³)                              | _                              | (NDIR)   |  |  |
|  | 8 Hour<br>(Lake Tahoe)          | 6 ppm<br>(7 mg/m³)          |   | _  | _                              |  |  |  |
| Nitrogen<br>Dioxide                                | 1 Hour                          | 0.18 ppm<br>(339 µg/m³)     | Gas Phase<br>Chemilumin-  | 100 ppb<br>(188 µg/m³)                           | _                              | Gas Phase<br>Chemiluminescence                     |  |  |
| (NO <sub>2</sub> ) <sup>8/</sup>                   | Annual<br>Arithmetic Mean       | 0.030 ppm<br>(57 µg/m³)     | escence   | 0.053 ppm<br>(100 µg/m³)                         | Same as<br>Primary<br>Standard |  |  |  |
| Sulfur<br>Dioxide                                  | 1 Hour                          | 0.25 ppm<br>(655 μg/m³)     | Ultraviolet<br>Fluorescence                                     | 75 ppb<br>(196 µg/m³)                            | _                              | Ultraviolet Fluorescence;                          |  |  |
| (SO <sub>2</sub> ) <sup>9/</sup>                   | 3 Hour                          | _                           |   | _  | 0.5 ppm<br>(1300 µg/m³)        | Spectrophotometry<br>(Pararosaniline<br>Method)    |  |  |
|  | 24 Hour                         | 0.04 ppm<br>(105 µg/m³)     |   | 0.14 ppm<br>(365 µg/m³) <sup>9</sup>             | _                              | Modiody  |  |  |
|  | Annual<br>Arithmetic Mean       | _                           |   | 0.30 ppm (for certain areas) <sup>9</sup>        | _                              |  |  |  |
| Lead (Pb) <sup>10/,</sup>                          | 30 Day Average                  | 1.5 µg/m³                   | Atomic Absorption   | _  | _                              | _  |  |  |
| 11/  | Calendar<br>Quarter             | _                           |   | 1.5 µg/m³<br>(for certain<br>areas) <sup>9</sup> | Same as<br>Primary<br>Standard | High Volume<br>Sampler and Atomic<br>Absorption    |  |  |
| Visibility<br>Reducing<br>Particles <sup>12/</sup> | 8 Hour                          | See footnote 12             | Beta Attenuation<br>and Transmittance<br>through Filter<br>Tape | No National Standards                            |                                |  |  |  |
| Sulfates<br>(SO <sub>4</sub> )                     | 24 Hour                         | 25 μg/m <sup>3</sup>        | lon<br>Chromatography   |  | y                              |  |  |  |

|                                  |                | CAAQS <sup>1/</sup>         |                             |                           | NAAQS <sup>2/</sup> |                      |
|----------------------------------|----------------|-----------------------------|-----------------------------|---------------------------|---------------------|----------------------|
| Pollutant                        | Averaging Time | Concentration <sup>3/</sup> | Method <sup>4/</sup>        | Primary <sup>3/, 5/</sup> | Secondary 3,/6/     | Method <sup>7/</sup> |
| Hydrogen<br>Sulfide              | 24 Hour        | 0.03 ppm<br>(42 µg/m³)      | Ultraviolet<br>Fluorescence |                           |                     |                      |
| Vinyl<br>Chloride <sup>10/</sup> | 24 Hour        | 0.01 ppm<br>(26 µg/m³)      | Gas<br>Chromatography       |                           |                     |                      |

Source: CARB (2016); EPA (2024a)

- 1/ California standards for ozone, carbon monoxide (except Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, suspended particulate matter (PM<sub>10</sub>, and PM<sub>2.5</sub>) and visibility reducing particles, are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
- 2/ National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest eight-hour concentration in a year, averaged over three years, is equal to or less than the standard. For PM<sub>10</sub>, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than one. For PM<sub>2.5</sub>, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the EPA for further clarification and current national policies.
- 3/ Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. The torr (symbol: Torr) is a non-SI unit of pressure with the ratio of 760 to 1 standard atmosphere, chosen to be roughly equal to the fluid pressure exerted by a millimeter of mercury, i.e., a pressure of 1 Torr is approximately equal to one millimeter of mercury. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
- 4/ Any equivalent procedure which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.
- 5/ National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect public health.
- 6/ National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- 7/ Reference method as described by the EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the EPA.
- 8/ To attain 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. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
- 9/ 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 nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
- 10/ CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects that are determined. These actions allow implementing control measures at levels below the ambient concentrations specified for these pollutants.
- 11/ The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
- 12/ In 1989, the Air Resources Board 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.

#### 2.2.2.2 Toxic Air Contaminants

The state Air Toxics Program was established in 1983 under AB 1807 (Tanner). The California Toxic Air Contaminants (TAC) list identifies more than 700 pollutants, of which carcinogenic and noncarcinogenic toxicity criteria have been established for a subset of these pollutants pursuant to the California Health and Safety Code. In accordance with AB 2728, the state list includes the Federal HAPs. The Air Toxics "Hot Spots" Information and Assessment Act of 1987 (AB 2588) seeks to identify and evaluate risk from air toxics sources. TAC emissions from individual facilities are quantified and prioritized. "High-priority" facilities are required to perform an HRA, and if specific thresholds are exceeded, facilities are required to communicate the results to the public in the form of notices and public meetings.

Diesel particulate matter (DPM), a mixture of solid particles in diesel engine exhaust, is classified as a carcinogen and TAC in California. Long-term exposure to DPM poses the highest cancer risk of any TAC evaluated by the Office of Environmental Health Hazard Assessment (OEHHA). CARB estimates that about 70 percent of the cancer risk that the average Californian faces from breathing toxic air pollutants stems from DPM. Exposure to DPM is highest near roads and freeways, truck loading and unloading operations, and diesel-powered machinery operations. Exposure to diesel exhaust in general can have immediate health effects such as irritation to the eyes, nose, throat, and lungs. It can also cause coughs, headaches, light-headedness, and nausea (OEHHA 2023).

In 2000, CARB approved a comprehensive Diesel Risk Reduction Plan to reduce diesel emissions from both new and existing diesel-fueled vehicles and engines. The regulation is anticipated to result in an 80 percent decrease in statewide diesel health risk in 2020 compared with the diesel risk in 2000. In 2020, CARB adopted the Advanced Clean Truck Regulations that requires truck manufacturers to transition from diesel trucks and vans to electric zero-emission trucks beginning in 2024. By 2045, every new truck sold in California will be zero emission.

Additional regulations apply to new trucks and diesel fuel, including the On-Road Heavy Duty Diesel Vehicle (In-Use) Regulation, On-Road Heavy Duty (New) Vehicle Program, In-Use Off-Road Diesel Vehicle Regulation, and New Off-Road Compression-Ignition (Diesel) Engines and Equipment program. These regulations and programs have timetables by which manufacturers must comply and existing operators must upgrade their diesel-powered equipment. Several airborne toxic control measures reduce diesel emissions, including In-Use Off-Road Diesel-Fueled Fleets (13 California Code of Regulations [CCR] 2449 et seq.) and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025).

## California Health and Safety Code Section 41700

Section 41700 of the Health and Safety Code states that a person shall not discharge from any source whatsoever quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public; or that endanger the comfort, repose, health, or safety of any of those persons or the public; or that cause, or have a natural tendency to cause, injury or damage to business or property. Section 41700 also applies to sources of objectionable odors.

#### **State Implementation Plans**

The federal CAA requires all states to submit a State Implementation Plan (SIP) to EPA. SIPs are not single documents. They are a compilation of new and previously submitted plans, programs (such as monitoring, modeling, permitting, etc.), district rules, state regulations, and federal controls. Many of California's SIPs and attainment plans rely on the same core set of control strategies described above, including emission standards for cars and heavy trucks, fuel regulations, and limits on emissions from consumer products. State law designates CARB as the lead agency for all purposes related to SIPs and attainment plans. Local air districts and other agencies prepare SIP elements and submit them to CARB for review and approval. CARB forwards those revisions to EPA for approval and publication in the Federal Register.

The law also requires submission of attainment plans for areas that are designated nonattainment with respect to the NAAQS. These attainment plans are comprehensive plans that describe how a Federal nonattainment area will attain and maintain the particular NAAQS standard(s) it does not conform to. Once the area is redesignated as attainment for the NAAQS in question, a maintenance area classification is required for a period of 20 years to provide assurance the area will continue to be in attainment, and SIPs must be submitted under this maintenance area classification.

## 2.2.3 Regional and Local Regulations

## 2.2.3.1 Yolo Solano Quality Management District

The CARB coordinates and oversees both state and federal air pollution control programs in California and has divided the state into 15 air basins. Significant authority for air quality control within each basin has been given to local Air Pollution Control Districts or Air Quality Management Districts that regulate stationary source emissions and develop local nonattainment plans. The YSAQMD is the regional agency responsible for the regulation and enforcement of federal, state, and local air pollution control regulations in the SVAB. The YSAQMD jurisdiction includes all of Yolo County and the northeast portion of Solano County, including Vacaville, Dixon, and Rio Vista.

YSAQMD is included in the Sacramento Federal Non-attainment Area (SFNA) by the EPA. The SFNA includes Sacramento and Yolo Counties, the western portion of El Dorado and Placer Counties, the southern portion of Sutter County, and the northeastern portion of Solano County. The District has developed the following plans to attain state and federal standards for ozone and particulate matter:

- 1-Hour Ozone. The SFNA was designated as "severe" nonattainment for the now-revoked 1979 1-hour ozone NAAQS. On October 18, 2012, EPA made a finding that the SFNA attained the revoked 1-hour ozone NAAQS (77 Federal Register [FR] 64036). The Sacramento Metropolitan Air Quality Management District (SMAQMD) initially submitted a 1-hour Ozone Attainment Determination Request to EPA in April 2010 (SMAQMD 2010). After issuing its proposed determination for public comment (76 FR 28696), EPA requested additional information which was provided in August 2012. EPA did not act on the request and asked the SMQAMD to update the request under the redesignation substitution request guidelines adopted for the 2008 ozone NAAQS (80 FR 12264). On August 24, 2017, SMAQMD submitted the Sacramento Federal Ozone Nonattainment Area Redesignation Substitution Request for the 1979 1-Hour Ozone Standard in response to the request.
- 8-Hour Ozone. The EPA promulgated 8-hour ozone NAAQS in 1997, 2008, and 2015, with each successive rule promulgating more stringent NAAQS. The applicable plan is the Sacramento Regional 2015 NAAQS 8-Hour Ozone Attainment and Reasonable Further Progress Plan, which was prepared by the SMAQMD staff from the Monitoring, Plan, and Rules Division as a joint project with the YSAQMD and neighboring air districts. The SFNA is classified as a "serious" nonattainment area for the 2015 standard. However, the SFNA has made great strides reducing ozone concentrations as it progresses to meeting its clean air goals and is currently expected to demonstrate attainment by the end of 2032 (SMAQMD 2023). On August 9, 2020, the District published the "Reasonably Available Control Technology (RACT) State

- Implementation Plan (SIP) Analysis for the 2015 Federal Ozone Standard" (YSAQMD 2020). The CAA requires certain categories of emission sources in ozone nonattainment areas to implement control methods that meet RACT (YSAQMD 2020).
- **PM**<sub>2.5</sub>. The Sacramento region was able to show that the 24-hour PM<sub>2.5</sub> standard had been achieved during the 2009-2011 period, thereby demonstrating compliance for three consecutive years. Following this, the YSAQMD and the other air districts of the region subsequently prepared the Proposed PM<sub>2.5</sub> Implementation/Maintenance Plan and Redesignation Request for Sacramento PM<sub>2.5</sub> Nonattainment Area (SMAQMD 2013). However, there were some PM<sub>2.5</sub> exceedances that occurred in late 2012 before the plan was forwarded to EPA. On May 10, 2017, EPA found that the area attained the 2006 PM<sub>2.5</sub> standard by the attainment date of December 31, 2015 (82 FR 21711). This finding was based on complete, quality-assured and certified PM<sub>2.5</sub> monitoring data for 2013 to 2015. The PM<sub>2.5</sub> Maintenance Plan and Redesignation Request will be updated and submitted in the future based on the clean data finding made by the EPA. The YSAQMD and the rest of the Sacramento Region are consistently below the 2012 annual standard for PM<sub>2.5</sub>. The promulgation of the 2024 NAAQS will eventually require EPA to designate the attainment status within two years (i.e., by May 2026).

The YSAQMD's primary means of implementing air quality plans is by adopting and enforcing rules and regulations. Stationary sources within the jurisdiction are regulated by the YSAQMD's permit authority and through its review and planning activities. Unlike stationary source projects, which encompass very specific types of equipment, process parameters, throughputs, and controls, air emissions sources from land use development projects are primarily mobile sources (i.e., construction equipment and motor vehicles) and area sources (small dispersed stationary and other non-mobile sources), including exempt sources (i.e., no permit required) such as consumer products, landscaping equipment, furnaces, and water heaters. Mixed-use land development projects may include nonexempt sources, including devices such as stationary internal combustion engines (i.e., backup power generators), small to large boilers, gas stations, or asphalt batch plants.

Notwithstanding nonexempt stationary sources, which would be permitted on a case-by-case basis, the following YSAQMD regulations generally apply to land use development projects:

#### Regulation II. Prohibition, Exceptions - Requirements

- Rule 2.1. Control of Emissions. The purpose of this rule is to control the emission of material which may be the cause of air pollution.
- Rule 2.5. Nuisance. This rule prohibits the discharge of air contaminants or other materials in
  quantities that may cause injury, detriment, nuisance, or annoyance to any considerable
  number of persons or to the public or that endanger the comfort, repose, health, or safety of
  any such person or the public.
- Rule 2.11. Particular Matter Concentrations. This rule prohibits the release or discharge into the atmosphere from any single source operation, dust, fumes, or total suspended particulate matter emissions in excess of 0.1 grain per cubic foot of gas at dry standard conditions.

# 2.2.3.2 Solano County General Plan

The Solano County General Plan, adopted by the Solano County Board of Supervisors on August 5, 2008, and by the voters of Solano County on November 4, 2008, is a guide for both development and conservation within the unincorporated county through 2030 (Solano County 2008). The following goals, policies, and implementation programs from Chapter 5, Public Health and Safety, are applicable for the Project:

**Goal HS. G-2**. Improve air quality in Solano County, and by doing so, contribute to improved air quality in the region.

**Policy HS.P-43.** Support land use, transportation management, infrastructure and environmental planning programs that reduce vehicle emissions and improve air quality.

**Policy HS.P-44.** Minimize health impacts from sources of toxic air contaminants, both stationary (e.g., refineries, manufacturing plants) as well as mobile sources (e.g., freeways, rail yards, commercial trucking operations).

**Policy HS.P-45.** Promote consistency and cooperation in air quality planning efforts.

**Implementation Program HS.I-52.** Require that when development proposals introduce new significant sources of toxic air pollutants, they prepare a health risk assessment as required under the Air Toxics "Hot Spots" Act (AB 2588, 1987) and, based on the results of the assessment, establish appropriate land use buffer zones around those areas posing substantial health risks.

**Implementation Program HS.I-54.** Require the implementation of best management practices to reduce air pollutant emissions associated with the construction of all development and infrastructure projects.

**Implementation Program HS.I-58**. Use the guidelines presented in the CARB's *Air Quality and Land Use Handbook: A Community Health Perspective*, or the applicable Air Quality Management District guidelines and recommendations available at the time, when establishing buffers around sources of toxic air contaminants or odorous emissions

**Implementation Program HS.I-59.** Assess air quality impacts using the latest version of the California Environmental Quality Act Guidelines and guidelines prepared by the applicable Air Quality Management District.

# 2.3 Regional And Local Air Quality Conditions

#### 2.3.1 Sacramento Valley Air Basin Attainment Status

In an effort to protect human health and welfare, the CARB and EPA have established Ambient Air Quality Standards. Areas are considered in "attainment" if standards are met and "nonattainment" if they are not met. For ozone, nonattainment status is further classified as marginal, moderate, serious, severe, or extreme. For  $PM_{10}$  and  $PM_{2.5}$ , nonattainment status is further classified as moderate or serious.

At the federal level, Solano County is designated as a severe nonattainment area for the 2008 8-hour ozone standard, a serious nonattainment area for the 2015 8-hour ozone standard, and a moderate nonattainment area for the 2006 24-hour  $PM_{2.5}$  standard. At the state level, the SVAB is designated as a nonattainment area for ozone and respirable particulate matter. The attainment classifications for the criteria pollutants are presented in Table 2.

Table 2. San Joaquin Valley Attainment Status (Solano County)

|                               | Designation/                                | Classification          |
|-------------------------------|---|-------------------------|
| Pollutant                     | Federal Standards                           | State Standards         |
| Ozone (1-Hour)                | No Federal Standard                         | Nonattainment/Severe    |
| Ozone (8-Hour)                | Nonattainment/Severe (2008); Serious (2015) | Nonattainment           |
| NO <sub>2</sub>               | Attainment/Unclassified                     | Attainment              |
| CO                            | Attainment/Unclassified                     | Attainment/Unclassified |
| PM <sub>10</sub>              | Attainment                                  | Nonattainment           |
| PM <sub>2.5</sub>             | Nonattainment/Moderate                      | Nonattainment           |
| SO <sub>2</sub>               | Attainment/Unclassified                     | Attainment              |
| Lead                          | Attainment/Unclassified                     | Attainment              |
| Hydrogen Sulfide              | No Federal Standard                         | Unclassified            |
| Sulfates                      | No Federal Standard                         | Attainment              |
| Visibility Reducing Particles | No Federal Standard                         | Unclassified            |
| Vinyl Chloride                | No Federal Standard                         | Attainment              |

Source: EPA (2024b) and CARB (2022a)

#### 2.3.2 Local Ambient Air Quality

An extensive air monitoring network operated by YSAQMD, CARB, and the U.S. National Park Service measures concentrations of air pollutants to determine attainment status as well as generate air quality forecasts.

YSAQMD monitors ambient air quality for ozone,  $PM_{10}$ , and  $PM_{2.5}$ . The closest monitor measuring ozone concentrations is the Vacaville-Ulatis Drive monitoring station, located approximately 3 miles southwest of the Project site. For  $PM_{10}$ , the closest monitor is the Vacaville-Merchant Street monitoring station located approximately 5 miles southwest of the Project site. Finally, for  $PM_{2.5}$ , the closest monitor is the Woodland-Gibson Road monitoring station located approximately 18 miles northwest of the Project site. For the purposes of this analysis, these monitoring locations were considered to be conservatively representative of the air quality in the immediate vicinity of the Project. Table 3 summarizes the most recent air quality data from 2021 through 2023 with the number of days exceeding the ambient air quality standards.

Table 3. Local Ambient Air Quality Monitoring Data

| Averaging Period  | 2021                    | 2022              | 2023             |
|---|-------------------------|-------------------|------------------|
| Ozone (O <sub>3</sub> ) – Vacaville-Ulatis, California Monitoring Station (A  | QS Site ID: 06-095-3003 | 3)                |                  |
| 1-hour Maximum Concentration (ppm)  | 0.095                   | 0.086             | 0.075            |
| Number of days exceeding CAAQS = 0.09 ppm                                     | 1                       | 0                 | 0                |
| 8-hour Maximum Concentration  | 0.078                   | 0.068             | 0.069            |
| Number of days exceeding CAAQS = 0.070 ppm                                    | 2                       | 0                 | 0                |
| Number of days exceeding NAAQS = 0.070 ppm                                    | 2                       | 0                 | 0                |
| Inhalable Particulate Matter (PM <sub>10</sub> ) – Vacaville-Merchant Street, | California Monitoring   | Station (AQS Site | ID: (06-095-3001 |
| 24-hour Maximum Concentration (µg/m³)   | 50.0                    | 33.4              | 37.6             |
| Number of days exceeding CAAQS = 50 μg/m³                                     | 0                       | 0                 | 0                |
| Number of days exceeding NAAQS = 150 µg/m³                                    | 0                       | 0                 | 0                |
| Annual Average Concentration (µg/m³) (20 µg/m³ CAAQS)                         | *                       | 12.3              | *                |
| Fine Particulate Matter (PM <sub>2.5</sub> ) – Woodland-Gibson Road, Calif    | ornia Monitoring Statio | n (AQS Site ID: 0 | 6-113-1003)      |
| 24-hour Maximum Concentration (µg/m³)   | 33.8                    | 34.8              | 37.0             |
| Number of days exceeding NAAQS = 35 µg/m³                                     | 0                       | 0                 | 1                |
| Annual Average Concentration (µg/m³) (12 µg/m³ NAAQS)¹                        | 8.8                     | 8.3               | 7.4              |

Notes:  $\mu$ g/m³ – microgram per cubic meter; CAAQS – California Ambient Air Quality Standards; NAAQS – National Ambient Air Quality Standards; ppb – parts per billion; ppm – parts per million

Sources: CARB (2024b) and EPA (2024c)

# 2.4 Significance Criteria and Methodology

# 2.4.1 Thresholds of Significance

## 2.4.1.1 California Environmental Quality Act Guidelines

The State of California has developed guidelines to address the significance of air quality impacts based on Appendix G of the California Environmental Quality Act (CEQA) Guidelines, which indicates that a project has significant air quality impact if it will:

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

# 2.4.1.2 Yolo Solano Air Quality Management District

The Handbook for Assessing and Mitigating Air Quality Impacts (YSAQMD 2007) has established emissions-based thresholds of significance for criteria pollutants, which are shown in Table 4.

<sup>1/</sup> Applicable standard for years 2021- 2023. This has since been revised to 9 µg/m³ effective May 6, 2024 (89 FR 16202, Reconsideration of the National Ambient Air Quality Standards for Particulate Matter).

<sup>\*</sup> means that there was insufficient data available to determine the value.

Table 4. YSAQMD Air Quality Thresholds of Significance – Criteria Pollutants

| Pollutant        | Thresholds of Significance                               |
|------------------|--|
| ROG              | 10 tons/year   |
| NO <sub>X</sub>  | 10 tons/year   |
| PM <sub>10</sub> | 80 lbs/day   |
| CO               | Violation of a state ambient air quality standard for CO |

CO – carbon monoxide; NOx – nitrogen oxides; PM10 – particulate matter less than 10 microns in diameter; ROG – reactive organic gas Source: YSAQMD (2007)

In addition to the annual emissions mass thresholds described in Table 4, the YSAQMD has also established additional thresholds of significance for toxics, odors, and cumulative

#### **Toxic Air Contaminants**

The YSAQMD has established thresholds of significance for TAC emissions from development projects. Projects that have the potential to expose the public to TACs in excess of the following thresholds would be considered to have a significant air quality impact:

- Probability of contracting cancer for the maximally exposed individual (MEI) equals or exceeds
   10 in 1 million people.
- Ground level concentrations of non-carcinogenic TACs would result in a hazard index equal to 1 for the MEI or greater.

These thresholds are not applicable to TACs from mobile sources (YSAQMD 2007).

#### **Cumulative Impact Threshold**

As per YSAQMD (2007), any proposed project that would individually have a significant air quality impact would also be considered to have a significant cumulative impact. For CO, impacts are cumulatively significant when modeling shows that the combined emissions from the project and other existing and planned projects (i.e., background concentration) will exceed the CAAQS.

#### **Odors**

As described in YSAQMD (2007), "a project may reasonably be expected to have a significant adverse odor impact where it generates odorous emissions in such quantities as to cause detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which may endanger the comfort, repose, health, or safety of any such person or the public, or which may cause, or have a natural tendency to cause, injury or damage to business or property."

# 2.4.2 Approach and Methodology

Air quality and global climate change impacts associated with the proposed Project are related to emissions that would occur during its construction and subsequent operation. The principal sources of pollutants during construction would be earth-moving activities, construction equipment, trucks bringing materials to and from the site, and construction crew commuting vehicles. There are numerous air quality modeling tools available to assess air quality impacts of the Project. Emissions were estimated using CalEEMod (Version 2022.1.1.21). The model contains data specific to each

California air basin. The model quantifies direct emissions from construction and operations (including vehicle use), as well as indirect emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. For calculation of on-road (offsite) mobile sources, CalEEMod uses the EMFAC 2021 emissions model (CAPCOA 2022).

#### 2.4.2.1 Construction

The construction processes are anticipated to occur during a period of approximately 14 months, starting in early 2026. Groundwater well development, if required, will begin 1 month ahead of construction contractor mobilization, expanding the overall duration of onsite activities to 15 months through Project commissioning. Project construction will consist of five primary stages (see Table 5, Construction Schedule), with several stages overlapping with one another. Grading will occur on the site to achieve the required surface conditions. The total graded area for the Project site will be approximately 18.5 acres. The site grading will require approximately 24,550 cubic yards of import fill. The Project will implement dust control practices such as watering.

Construction will primarily occur during daylight hours, Monday through Friday between 7:00 a.m. and 5:00 p.m. as required to meet the construction schedule. Additional hours or days may be necessary to facilitate the schedule. It was assumed that construction equipment will operate for 5 days per week during Project construction.

The onsite construction workforce required for the Project is approximately 80 workers, with a peak workforce of approximately 131 individuals. The Project will also include hauling, vendor, and onsite trucks that will be used for transporting materials onsite and/or offsite during construction. Vehicle use of area roadways resulting from Project construction activities will be limited to the 14-month construction period (or 15 months if a groundwater well is constructed), as workers and materials are transported to and from the Project site.

Construction scenario assumptions, including phasing, equipment, and vehicle trips, were based on information provided by Corby Energy Storage, LLC. CalEEMod divides the construction processes into phases, which can be modified to fit Project specifications.

During construction of the Project, water will be required for common construction-related purposes, including (but not necessarily limited to) dust suppression, soil compaction, and grading. Temporary onsite water tanks and water trucks will provide water for construction needs. Additionally, construction will generate an average of approximately 80 cubic yards of nonhazardous solid waste per week over the construction period.

Each construction phase has the potential to generate the following: (1) fugitive dust emissions resulting from soil disturbance activity; (2) emissions of air pollutants from fuel combustion in construction equipment; and (3) emissions of air pollutants from fuel combustion in vehicles used for worker commute, equipment deliveries, and material hauling.

Table 5 shows the construction schedule, and Table 6 shows the construction equipment and vehicle trips.

Table 5. Construction Schedule

| Stage | Description   | Duration (Days) |
|-------|---|-----------------|
| 1     | Groundwater Well Drilling/Testing                                 | 25              |
| 2     | Groundwater Well Equipment Installation                           | 16              |
| 3     | Site preparation  | 43              |
| 4     | Grading   | 64              |
| 5     | Battery/Container Installation                                    | 152             |
| 6     | Gen-tie Site Preparation (orchard removal)                        | 10              |
| 7     | Substation Installation   | 131             |
| 8     | Gen-tie Foundations, Tower Erection, and Underground Installation | 131             |
| 9     | Gen-tie Stringing and Pulling                                     | 65              |
| 10    | Telecom   | 40              |
| 11    | Onsite Water Tank Installation                                    | 70              |
| 12    | Commissioning   | 63              |
| 13    | Generator Only Phase - Construction                               | 304             |

 Table 6.
 Construction Equipment and Vehicle Trips Per Phase

|   | Equipment            |          |                | Daily                        |  |  |                            |
|---|----------------------|----------|----------------|------------------------------|--|--|----------------------------|
| Construction<br>Phase                   | Equipment Type       | Quantity | Usage<br>Hours | Worker<br>Vehicle<br>Trips¹/ | Daily<br>Vendor<br>Trips <sup>1/</sup> | Total Haul<br>Truck<br>Trips <sup>1/</sup> | Onsite<br>Truck<br>Trips¹/ |
| Groundwater<br>Well<br>Drilling/Testing | Drill Rig            | 1        | 8              | 8                            | 2                                      | 0  | 0                          |
|   | Generator Sets       | 1        | 4              |                              |  |  |                            |
|   | Air Compressors      | 1        | 4              |                              |  |  |                            |
|   | Forklifts            | 1        | 4              |                              |  |  |                            |
|   | Loader               | 1        | 4              |                              |  |  |                            |
| Groundwater                             | Generator Sets       | 1        | 4              | 8                            | 1                                      | 0  | 0                          |
| Well Equipment<br>Installation          | Air Compressors      | 1        | 4              |                              |  |  |                            |
| IIIStaliation                           | Forklifts            | 1        | 4              |                              |  |  |                            |
|   | Loader               | 1        | 4              |                              |  |  |                            |
| Site Preparation                        | Rubber Tired Loaders | 1        | 8              | 16                           | 8                                      | 20   | 8                          |
|   | Skid Steer Loaders   | 1        | 4              |                              |  |  |                            |
|   | Tractors/Loaders/    | 1        | 4              |                              |  |  |                            |
| Grading                                 | Graders              | 1        | 8              | 80                           | 16                                     | 872/                                       | 40                         |
|   | Plate Compactors     | 1        | 6              |                              |  |  |                            |
|   | Rollers              | 1        | 6              |                              |  |  |                            |
|   | Rubber Tired Loaders | 1        | 6              |                              |  |  |                            |
|   | Skid Steer Loaders   | 1        | 6              |                              |  |  |                            |
|   | Tractors/Loaders/    | 1        | 8              |                              |  |  |                            |
|   | Onsite water trucks  | 1        | 8              |                              |  |  |                            |
| Battery/                                | Cranes               | 2        | 8              | 120                          | 30                                     | 30   | 10                         |
| Container<br>Installation               | Air Compressors      | 2        | 6              |                              |  |  |                            |
| IIISIAIIAIIUII                          | Excavators           | 2        | 8              |                              |  |  |                            |
|   | Plate Compactors     | 2        | 4              |                              |  |  |                            |

|                                    | Equipm                     | nent     |                | Daily                                    |  |  |                            |
|------------------------------------|----------------------------|----------|----------------|--|--|--|----------------------------|
| Construction<br>Phase              | Equipment Type             | Quantity | Usage<br>Hours | Worker<br>Vehicle<br>Trips <sup>1/</sup> | Daily<br>Vendor<br>Trips <sup>1/</sup> | Total Haul<br>Truck<br>Trips <sup>1/</sup> | Onsite<br>Truck<br>Trips¹/ |
|                                    | Generator Sets             | 2        | 8              |  |  |  |                            |
|                                    | Rollers                    | 1        | 8              |  |  |  |                            |
|                                    | Rough Terrain Forklifts    | 1        | 8              |  |  |  |                            |
|                                    | Skid Steer Loaders         | 2        | 6              |  |  |  |                            |
|                                    | Tractors/Loaders/          | 2        | 6              |  |  |  |                            |
| Gen tie Site Prep                  | Dozers                     | 2        | 8              | 10                                       | 0                                      | 13   | 2                          |
| (Orchard<br>Removal)<br>Substation | Excavators                 | 1        | 8              |  |  |  |                            |
| rtemoval)                          | Stump Grinder              | 1        | 8              |  |  |  |                            |
| Substation                         | Air Compressors            | 1        | 8              | 80                                       | 40                                     | 20   | 0                          |
| Installation                       | Aerial Lifts               | 4        | 4              |  |  |  |                            |
|                                    | Bore/Drill Rigs            | 1        | 2              |  |  |  |                            |
|                                    | Cranes                     | 1        | 4              |  |  |  |                            |
|                                    | Excavators                 | 1        | 8              |  |  |  |                            |
|                                    | Generator Sets             | 1        | 4              |  |  |  |                            |
|                                    | Rollers                    | 1        | 6              |  |  |  |                            |
|                                    | Rough Terrain Forklifts    | 1        | 6              |  |  |  |                            |
|                                    | Rubber Tired Dozers        | 1        | 8              |  |  |  |                            |
|                                    | Tractors/Loaders/ Backhoes | 1        | 6              |  |  |  |                            |
|                                    | Trenchers                  | 2        | 8              |  |  |  |                            |
|                                    | Skid Steer Loaders         | 1        | 6              |  |  |  |                            |
| Gen-tie                            | Air Compressors            | 2        | 6              | 80                                       | 16                                     | 462/                                       | 10                         |
| Foundations,<br>Tower Erection,    | Cranes                     | 1        | 8              |  |  |  |                            |
| and                                | Forklifts                  | 1        | 6              |  |  |  |                            |
| Underground<br>Installation        | Pumps                      | 2        | 4              |  |  |  |                            |
| installation                       | Welders                    | 2        | 8              |  |  |  |                            |
|                                    | Bore/Drill Rigs            | 1        | 4              |  |  |  |                            |
|                                    | Excavators                 | 1        | 6              |  |  |  |                            |
|                                    | On-site water trucks       | 1        | 8              |  |  |  |                            |
| Gen-tie Stringing                  | Aerial Lifts               | 2        | 6              | 80                                       | 16                                     | 20   | 10                         |
| and Pulling                        | Tractors/Loaders/          | 2        | 6              |  |  |  |                            |
| Telecom <sup>3/</sup>              | N/A                        | N/A      | N/A            | N/A                                      | N/A                                    | N/A  | N/A                        |
| Onsite Water                       | Excavators                 | 2        | 4              | 52                                       | 4                                      | 8  | 4                          |
| Tank Installation                  | Backhoes                   | 2        | 6              |  |  |  |                            |
|                                    | Bulldozer                  | 1        | 2              |  |  |  |                            |
|                                    | Cranes                     | 2        | 4              |  |  |  |                            |
|                                    | Welders                    | 2        | 4              |  |  |  |                            |
|                                    | Generator Sets             | 2        | 4              |  |  |  |                            |
|                                    | Compactors                 | 2        | 2              |  |  |  |                            |
|                                    | Transport Trucks           | 2        | 8              |  |  |  |                            |
| Commissioning                      | N/A                        | N/A      | N/A            | 150                                      | 40                                     | 0  | 20                         |



|                        | Equipment                |          |                | Daily                        |  |                                |  |
|------------------------|--------------------------|----------|----------------|------------------------------|--|--------------------------------|--|
| Construction<br>Phase  | Equipment Type           | Quantity | Usage<br>Hours | Worker<br>Vehicle<br>Trips¹/ | Daily<br>Vendor<br>Trips <sup>1/</sup> | Total Haul<br>Truck<br>Trips¹/ | Onsite<br>Truck<br>Trips <sup>1/</sup> |
| Generator Only         | Generator Sets           | 2        | 8              | 0                            | 0                                      | 0                              | 0                                      |
| Phase-<br>Construction | Water Pump <sup>4/</sup> | 1        | 2              |                              |  |                                |  |

<sup>1/</sup> Number reflects daily one-way trips.

# 2.4.2.2 Operation

Once constructed, the Project will operate 7 days per week, 365 days per year. The Project will be outfitted with a suite of sensors, monitoring equipment, and communications gear as part of the Project's supervisory control and data acquisition system. This allows the facility to be monitored in real time remotely.

The Project will require up to six workers to support onsite and offsite O&M and administrative support functions. Onsite O&M activities will consist of performing routine visual inspections, executing minor repairs, and responding to needs for plant adjustment. On intermittent occasions, additional workers may be required for repairs or replacement of equipment or other specialized maintenance. However, due to the self-operating nature of the facility, such actions will likely occur infrequently. One major maintenance inspection will also take place annually, requiring approximately 20 personnel for approximately one week. In addition, approximately every 2 to 3 years the Project will require battery augmentation to maintain Project capacity; a crew of approximately 20 additional workers will be onsite for approximately 3 months to install and connect additional batteries. O&M vehicles will include light-duty trucks (e.g., pickup, flatbed) and other light equipment for maintenance. Large or heavy equipment will not be used during normal operation, but may be brought to the facility infrequently for equipment repair or replacement.

Operational emissions were estimated using CalEEMod to include area, energy, and mobile source emissions. Operational assumptions, including equipment, solid waste, and water usage were based on information provided by Corby Energy Storage, LLC.

## 2.4.2.3 Ambient Air Quality Analysis

Ambient air quality impacts analyses were performed for onsite construction and operation emissions of  $NO_2$ , CO,  $SO_2$ ,  $PM_{10}$ , and  $PM_{2.5}$ . Additionally, for evaluating health risk associated with TACs, air quality impacts from DPM (represented by exhaust  $PM_{10}$ ) were assessed. Emissions were simulated as three area sources covering the Project areas associated with the BESS, substation, and gen-tie corridor. The modeling inputs are summarized below:

 AERMOD was executed using the latest version of the model (v24142) with the EPA regulatory default option.

<sup>2/</sup> Number includes water truck and import fill trips

<sup>3/</sup> Telecom installation equipment is covered by BESS and gen-tie equipment (including bore/drill).

<sup>4/</sup> Centrifugal pump will be required if construction water is extracted from adjacent irrigation canal.

- Five years of meteorological data (2017–2021) comprising Vacaville, California, surface
  observations with concurrent upper air data from Oakland, California, were obtained from
  CARB in AERMOD-ready processed format. This meteorological data set was used to estimate
  the maximum concentrations by the refined AERMOD modeling to best represent a maximum
  predicted concentration that can occur considering varying hourly meteorology over a 5-year
  period.
- The area sources were characterized to have a release height of 2.55 meters with an initial
  vertical dimension of 2.37 meters (EPA 2012). Annual mitigated construction equipment
  emissions were determined from CalEEMod and assigned to the area source. The HROFDAY
  factor in AERMOD was used to reflect the construction schedule (7:00 a.m.-7:00 p.m. Monday
  through Friday).
- Receptors were placed along the property fence line at 20-meter intervals. A nested grid of
  receptors was developed using the following spacing: 100-meter spacing out to 2,000 meters,
  and 1,000-meter spacing out to 20,000 meters in accordance with the OEHHA (2015) Air Toxics
  Hot Spots Program Risk Assessment Guidance. Additionally, discrete receptors were placed to
  capture DPM concentrations at select points of interest. These include residences, off-site
  worker locations, and sensitive receptors.
- Receptor elevations were determined by using National Elevation Data processed with the AERMAP v24142 terrain preprocessor.

The AERMOD dispersion modeling results are provided in Attachment B, Dispersion Modeling. Electronic files can be made available upon request.

#### 2.4.2.4 Health Risk Assessment

An HRA was conducted for Project construction DPM emissions using HARP2 based on values from AERMOD. Therefore, the discussion of dispersion modeling input parameters in the Section 2.4.2.3 also applies to the HRA. As per YSAQMD (2007), cancer and non-cancer risks associated with the MEI were calculated. The point of maximum impact is expected to occur at the Project boundary due to the near-surficial release height of the vehicle exhaust. The OEHHA default values for fraction at home, breathing rates, etc., were used for exposure calculations in HARP2. Since operational activities will be limited to routine inspection and maintenance, which would have negligible emissions, no quantitative HRA was performed. HARP2 output files are provided in Attachment C, Health Risk Assessment.

# 2.5 Impact Analysis

# 2.5.1 Would the Project conflict with or obstruct implementation of the applicable air quality plan?

**Less than significant impact.** The Project will not conflict with existing land uses or result in population growth. The Project will comply with all applicable YSAQMD rules and regulations. In addition, the Project will not result in a long-term increase in the number of trips or increase the overall vehicle miles traveled in the area. Worker vehicle trips, vendor trucks, and haul trucks will be

generated during the proposed construction activities but will cease after construction is completed. Criteria pollutant emissions during construction will be below the applicable YSAQMD significance thresholds. The Project will implement best management practices for controlling fugitive dust emissions in accordance with HS.I-54 in the Solano County General Plan (Solano County 2008).

During the longer-term operational phase, the Project will have routine inspection and maintenance activities that will result in a net increase in emissions. However, this increase in emissions will not exceed any significance threshold or violate any YSAQMD rule or regulation. Therefore, impacts will be less than significant.

# 2.5.2 Would the project violate any air quality standard or contribute substantially to an existing or projected air quality violation?

**Less Than Significant Impact**. As stated previously, the YSAQMD has established significance thresholds to address pollution sources associated with general construction activities, such as the operation of onsite construction equipment, fugitive dust from site grading activities, and travel by construction workers. Based on these recommended thresholds, the proposed Project will result in a significant contribution to localized ambient air quality if emissions were to exceed the established thresholds.

The Project will include control of dust emissions generated during grading activities. Measures for dust control applied in CalEEMod for this analysis include the following:

- Watering of exposed surfaces up to two times per day,
- Implementation of vehicle speed on unpaved roads (assumes a CalEEMod default speed of 25 miles per hour), and
- Use of dust suppressants on all unpaved roads within the Project construction footprint.

Table 7 presents the estimated maximum annual emissions generated during construction of the Project, which will occur during 2026. Table 8 presents the estimated onsite maximum daily emissions generated during construction of the Project. Emissions with and without Tier 4 mitigation and dust control reductions are presented. Detailed emission calculations are provided in Attachment A.

Table 7. Estimated Maximum Annual Construction Criteria Air Pollutant Emissions

|  | Emissions (tons) |       |       |      |                  |                   |
|--|------------------|-------|-------|------|------------------|-------------------|
| Total Project Emissions                      | ROG              | NOx   | СО    | SOx  | PM <sub>10</sub> | PM <sub>2.5</sub> |
| No Reductions                                | 1.26             | 12.37 | 13.49 | 0.03 | 6.21             | 0.98              |
| Dust Control and Tier 4 Standards Reductions | 0.33             | 3.71  | 12.34 | 0.02 | 0.82             | 0.23              |
| YSAQMD Threshold (tons/year)                 | 10               | 10    |       |      |                  |                   |
| Threshold Exceeded?                          | No               | No    | N/A   | N/A  | N/A              | N/A               |

CO – carbon monoxide; N/A – not applicable;  $NO_x$  – nitrogen oxides;  $PM_{2.5}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 10 microns in diameter;  $PM_{10}$  – particulate matter less than 10 microns in diameter;  $PM_{10}$  – particulate matter less than 10 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 2.5 microns in dia

Table 8. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions

|  | Emissions (lbs/day) |                 |        |                 |                  |                   |
|--|---------------------|-----------------|--------|-----------------|------------------|-------------------|
| Total Project Emissions                      | ROG                 | NO <sub>x</sub> | CO     | SO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> |
| No Reductions                                | 16.58               | 154.36          | 175.27 | 0.40            | 102.00           | 13.59             |
| Dust Control and Tier 4 Standards Reductions | 4.74                | 47.75           | 170.65 | 0.24            | 11.27            | 2.84              |
| YSAQMD On-site Emissions Threshold           |                     |                 |        |                 | 80               |                   |
| Threshold Exceeded?                          | N/A                 | N/A             | N/A    | N/A             | No               | N/A               |

CO – carbon monoxide; N/A – not applicable;  $NO_x$  – nitrogen oxides;  $PM_{2.5}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 10 microns in diameter;  $PM_{10}$  – reactive organic gas;  $PM_{2.5}$  – sulfur oxides

As shown in Table 7, annual construction emissions will not exceed the YSAQMD annual significance thresholds for ROG and  $NO_x$ . Maximum daily  $PM_{10}$  construction emissions will not exceed YSAQMD's significance threshold of 80 pounds/day with the use of dust mitigation measures (Table 8).

Project operational emissions were estimated using CalEEMod to include mobile, area, stationary, and off-road source emissions. This includes potential emissions from worker commutes, and heavy trucks used during maintenance.

Table 9 presents the estimated maximum annual operational emissions in tons per year with a comparison to YSAQMD thresholds. Detailed emissions calculations are provided in Attachment A.

 Table 9.
 Estimated Maximum Annual Operational Criteria Air Pollutant Emissions

|                                      | Emissions (tons per year) |      |      |       |                  |                   |
|--------------------------------------|---------------------------|------|------|-------|------------------|-------------------|
| Emission Source                      | ROG                       | NOx  | CO   | SOx   | PM <sub>10</sub> | PM <sub>2.5</sub> |
| Area, Mobile, Stationary and Offroad | 0.44                      | 0.01 | 0.37 | <0.01 | 0.002            | <0.001            |
| YSAQMD Threshold                     | 10                        | 10   |      |       |                  |                   |
| Threshold Exceeded?                  | No                        | No   | N/A  | N/A   | N/A              | N/A               |

CO – carbon monoxide; N/A – not applicable;  $NO_x$  – nitrogen oxides;  $PM_{2.5}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 10 microns in diameter;  $PM_{10}$  – reactive organic gas;  $PM_{2.5}$  – sulfur oxides

Table 10. Estimated Maximum Daily Operational Criteria Air Pollutant Emissions

|                                      | Emissions (lbs/day) |      |      |        |                  |                   |  |
|--------------------------------------|---------------------|------|------|--------|------------------|-------------------|--|
| Emission Source                      | ROG                 | NOx  | CO   | SOx    | PM <sub>10</sub> | PM <sub>2.5</sub> |  |
| Area, Mobile, Stationary and Offroad | 2.88                | 0.09 | 4.24 | <0.001 | 0.02             | 0.01              |  |
| YSAQMD Threshold                     |                     |      |      |        | 80               |                   |  |
| Threshold Exceeded?                  | N/A                 | N/A  | N/A  | N/A    | No               | N/A               |  |

CO – carbon monoxide; N/A – not applicable;  $NO_x$  – nitrogen oxides;  $PM_{2.5}$  – particulate matter less than 2.5 microns in diameter;  $PM_{10}$  – particulate matter less than 10 microns in diameter;  $PM_{10}$  – reactive organic gas;  $PM_{2.5}$  – sulfur oxides

As shown in Tables 9 and 10, operational emissions will not exceed the YSAQMD thresholds for ROG,  $NO_X$ , and  $PM_{10}$ .

Additionally, based on the ambient air quality modeling, predicted impacts during construction for 8-hour CO and SO<sub>2</sub> are less than the Significant Impact Levels (SILs), indicating that no further air quality modeling is required for these pollutants and averaging times. AERMOD predicted concentrations for 1-hour CO, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> are summed with the ambient monitored background concentrations, resulting in total construction impacts below the CAAQS and NAAQS (Table 11). Project operations

predicted impacts for all pollutants are less than the SILs (Table 12). Therefore, operations impacts will be less than significant. AERMOD results are provided in Attachment B.

Therefore, the Project will not violate any air quality standard or contribute substantially to an existing or projected air quality violation.

Table 11. Construction Impacts

| Comparison to Significant Impact Levels (SILs) |                  |             |                                       |             |  |  |  |
|--|------------------|-------------|---------------------------------------|-------------|--|--|--|
| Pollutant                                      | Averaging Period | SIL (µg/m³) | Project Construction<br>Conc. (µg/m³) | Above SILs? |  |  |  |
| СО   | 8-hour           | 500         | 419                                   | No          |  |  |  |
| SO <sub>2</sub>                                | 1-hour           | 7.8         | 1.8                                   | No          |  |  |  |
|  | 24-hour          | 5           | 0.2                                   | No          |  |  |  |
|  | Annual           | 1           | 0.1                                   | No          |  |  |  |

| Ambient Air Quality Analysis |                  |                  |               |   |                             |  |  |
|------------------------------|------------------|------------------|---------------|---|-----------------------------|--|--|
| Pollutant                    | Averaging Period | NAAQS<br>(µg/m³) | CAAQS (µg/m³) | Project Construction<br>Total Conc. (µg/m³)¹/ | Above<br>NAAQS or<br>CAAQS? |  |  |
| NO <sub>2</sub>              | 1-hour           | 188              | 339           | 176   | No                          |  |  |
|                              | Annual           | 100              | 57            | 9.68  | No                          |  |  |
| CO                           | 1-hour           | 40,000           | 23,000        | 3891  | No                          |  |  |
| PM <sub>2.5</sub>            | 24-hour          | 35               |               | 26.11   | No                          |  |  |
|                              | Annual           | 9                | 12            | 7.61  | No                          |  |  |
| PM <sub>10</sub>             | 24-hour          | 150              | 50            | 37.77   | No                          |  |  |
|                              | Annual           |                  | 20            | 18.57   | No                          |  |  |

SIL - Significant Impacts Level; NAAQS - National Ambient Air Quality Standards; CAAQS - California Ambient Air Quality Standards CO - Carbon monoxide;  $NO_2 - Date Color Color Carbon Color C$ 

1/Values include background concentrations (provided in Appendix B) which are obtained from nearest monitoring stations.

Table 12. Operations Impacts

| Pollutant         | Averaging Period | SIL (µg/m³) | Project Operations Concentration (µg/m³) | Above SILs? |
|-------------------|------------------|-------------|--|-------------|
| NO <sub>2</sub>   | 1-hour           | 7.5         | 0.23                                     | No          |
|                   | Annual           | 1           | 0.003                                    | No          |
| CO                | 1-hour           | 2000        | 33                                       | No          |
|                   | 8-hour           | 500         | 6  | No          |
| PM <sub>2.5</sub> | 24-hour          | 1.2         | 0.003                                    | No          |
|                   | Annual           | 0.13        | 0.0005                                   | No          |
| PM <sub>10</sub>  | 24-hour          | 5           | 0.01                                     | No          |
|                   | Annual           | 1           | 0.0007                                   | No          |
| SO <sub>2</sub>   | 1-hour           | 7.8         | 0.002                                    | No          |
|                   | 24-hour          | 5           | 0.0002                                   | No          |
|                   | Annual           | 1           | 0.00002                                  | No          |

SIL - Significant Impacts Level; NAAQS - National Ambient Air Quality Standards; CAAQS - California Ambient Air Quality Standards CO - Carbon monoxide;  $NO_2 - National$  Microns in diameter;  $NO_2 - National$  Microns in diameter;  $NO_3 - Natio$ 



# 2.5.3 Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for O₃ precursors)?

**Less Than Significant Impact**. The Project will result in an increase in short-term emissions related to construction and an increase in long-term operational emissions for those pollutants and precursors (ROG and  $NO_X$ ) for which the YSAQMD is in nonattainment ( $O_3$  and  $PM_{2.5}$ ). However, as stated previously, based on YSAQMD guidance, any proposed project that would individually have a significant air quality impact would also be considered to have a significant cumulative impact. For CO, impacts are cumulatively significant when modeling shows that the combined emissions from the Project and other existing and planned projects (i.e., background concentration) will exceed the CAAQS. Based on this condition, modeled impacts from the Project during construction and operation will also be below applicable CAAQS for  $NO_2$ ,  $SO_2$ ,  $PM_{10}$ , and  $PM_{2.5}$ . Therefore, the Project will not make a cumulatively considerable contribution during construction or operations and impacts will be less than significant.

# 2.5.4 Would the project expose sensitive receptors to substantial pollutant concentrations?

Less Than Significant Impact. The Project consists of construction of a BESS facility that may have the potential to affect nearby sensitive receptors. As stated previously, the nearest rural residences are located across Kilkenny Road directly to the north and along Kilkenny Road to the west. Additional rural residences also exist in the Project vicinity; to the north, south, and east of the Project BESS area; and northeast of the PG&E Vaca-Dixon Substation. The nearest worker receptors will potentially be located just east of the BESS area with additional workers located to the southeast and northeast of the Project site. Other sensitive receptors include assisted living facilities, a hospital, and a school located west of the Project, across I-80.

YSAQMD identifies significance thresholds for TAC that are based on localized impacts. These include a cancer risk greater than 10 in 1 million for the MEI, and a chronic and acute hazard index (i.e., ratio of concentrations to Reference Exposure Levels) of one or more. The primary TAC emitted from construction activities is diesel PM (as  $PM_{10}$ ). An HRA was performed to estimate the potential cancer and chronic risk (characterized by a hazard index) at the maximally exposed receptors. Acute risk was not evaluated since OEHHA has not established an acute Reference Exposure Level for DPM. While HRAs generally focus on sensitive receptors (e.g., residences, schools, and hospitals), a full receptor grid surrounding the Project site was also included. Based on the HRA, the Project is expected to have a cancer risk less than 10 in one million at all MEIs, and a chronic hazard index less than 1 (Table 13). Therefore, impacts will be less than significant. Because operational activities will be limited to routine inspection and maintenance, an operational HRA was not required, and the impact will therefore be less than significant.

Table 13. Health Risk Assessment for Mitigated Construction Emissions

| Maximum Impact       | Cancer Risk<br>(Persons per | Chronic      | Receptor Coordin<br>Zone | Distance to Project Boundary |         |
|----------------------|-----------------------------|--------------|--------------------------|------------------------------|---------|
| Receptor             | Million)                    | Hazard Index | Easting (meters)         | Northing (meters)            | (miles) |
| PMI*                 | 0.11                        | 0.009        | 594464.30                | 4251031.29                   | 0       |
| MEIR-1               | 4.09                        | 0.005        | 595415.77                | 4250279.25                   | 0.03    |
| MEIR-2               | 0.52                        | 0.001        | 594931.91                | 4250179.68                   | 0.05    |
| MEIR-3               | 1.12                        | 0.001        | 595411.52                | 4250453.65                   | 0.13    |
| MEIR-4               | 1.08                        | 0.001        | 595511.46                | 4250501.92                   | 0.17    |
| MEIR-5               | 0.56                        | 0.001        | 595498.54                | 4250667.12                   | 0.27    |
| MEIR-6               | 0.14                        | <0.001       | 594766.45                | 4251527.66                   | 0.31    |
| MEIR-7               | 0.27                        | <0.001       | 595687.62                | 4249132.47                   | 0.32    |
| MEIR-8               | 0.14                        | <0.001       | 596049.90                | 4249314.63                   | 0.37    |
| MEIR-9               | 0.24                        | <0.001       | 596300.42                | 4250254.46                   | 0.48    |
| MEIW-1               | 0.04                        | 0.003        | 595615.79                | 4250198.89                   | 0.05    |
| MEIW-2               | 0.01                        | 0.001        | 595611.93                | 4249482.52                   | 0.10    |
| MEIW-3               | 0.003                       | <0.001       | 594302.81                | 4250769.11                   | 0.13    |
| MEIW-4               | 0.001                       | <0.001       | 593892.01                | 4250441.84                   | 0.44    |
| MEIW-5               | 0.005                       | <0.001       | 595985.30                | 4250979.75                   | 0.54    |
| Sensitive Receptor-1 | 0.001                       | <0.001       | 593411.06                | 4251932.94                   | 0.80    |
| Sensitive Receptor-2 | 0.001                       | <0.001       | 593289.01                | 4251915.51                   | 0.87    |
| Sensitive Receptor-3 | <0.001                      | <0.001       | 593034.82                | 4250164.60                   | 0.98    |
| Sensitive Receptor-4 | 0.027                       | <0.001       | 592775.99                | 4249427.13                   | 1.25    |
| Sensitive Receptor-5 | 0.003                       | <0.001       | 592634.24                | 4249800.03                   | 1.27    |
| YSAQMD threshold     | 10                          | 1            |                          |                              |         |

<sup>\*</sup> Point of Maximum Impact (PMI) occurs at Project Boundary

NAD 83 - North American Datum of 1983; UTM - Universal Transverse Mercator

# 2.5.5 Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less Than Significant Impact. During Project-related construction activities, various diesel-powered vehicles and equipment could create minor odors. These odors are not likely to be noticeable beyond the immediate vicinity and will be temporary and short-lived. Therefore, construction odor impacts will be less than significant. Long-term odors are associated typically with industrial projects involving use of chemicals, solvents, petroleum products, and other strong-smelling elements used in manufacturing processes. Odors also are associated with such uses as sewage treatment facilities and landfills. The Project involves no elements related to these types of uses. Therefore, no long-term odor impacts will occur with Project implementation.

#### 3.0 GREENHOUSE GAS EMISSIONS

# 3.1 Environmental Setting

#### 3.1.1 The Greenhouse Effect

Certain gases in the earth's atmosphere, classified as GHGs, play a critical role in determining the earth's surface temperature. A GHG is any gas in the atmosphere that absorbs infrared radiation. As solar radiation enters the earth's atmosphere, a portion of the radiation is absorbed by the earth's surface, and a portion is reflected back through the atmosphere into space. The absorbed radiation is eventually emitted from the earth into the atmosphere, not as solar radiation, but as infrared radiation. Most solar radiation passes through GHGs; infrared radiation is selectively absorbed or "trapped" by GHGs as heat and then reradiated back toward the earth's surface, warming the lower atmosphere and the earth's surface. This phenomenon, known as the "greenhouse effect," is beneficial for maintaining a habitable climate on the earth. As the atmospheric concentrations of GHGs rise, however, the average temperature of the lower atmosphere gradually increases, thereby increasing the potential for indirect effects such as a decrease in precipitation as snow, a rise in sea level, and changes to plant and animal species and habitat.

Whereas pollutants with localized air quality effects have relatively short atmospheric lifetimes (about one day), GHGs have long atmospheric lifetimes (one year to several thousand years). GHGs persist in the atmosphere long enough to be dispersed globally. Although the exact lifetime of any particular GHG molecule depends on multiple variables and cannot be pinpointed, scientific evidence reveals that more  $CO_2$  is emitted into the atmosphere than is sequestered by ocean uptake, vegetation, and other forms of sequestration. Of the total annual human-caused  $CO_2$  emissions, approximately 54 percent is sequestered through ocean uptake, uptake by northern hemisphere forest regrowth, and other terrestrial sinks within a year, whereas the remaining 46 percent of human-caused  $CO_2$  emissions remains stored in the atmosphere. The quantity of GHGs that it takes to ultimately result in climate change is not known precisely, although scientific evidence strongly indicates no single project would be expected to contribute measurably to a noticeable incremental change in the global average temperature.

# 3.1.2 Greenhouse Gases and Global Warming Potential

GHGs are emitted by natural processes and human activities. Natural GHG sources include decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Human activities known to emit GHGs include industrial manufacturing, utilities, transportation, residential, and agricultural activities. The GHGs that enter the atmosphere because of human activities are CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, and fluorinated carbons (hydrofluorocarbons [HFCs], perfluorocarbons [PFCs], and sulfur hexafluoride [SF<sub>6</sub>]).

CO<sub>2</sub> is an odorless, colorless gas with both natural and anthropogenic sources. Examples of natural sources are respiration of bacteria, plants, and animals, evaporation from oceans, and decomposition of organic matter. Human activities that emit CO<sub>2</sub> include burning coal, oil, natural gas, and wood.

 $CH_4$  is a flammable gas that is the main component of natural gas. When burned in the presence of oxygen,  $CO_2$  and water are released. There are no direct health effects from exposure to  $CH_4$ . Sources of  $CH_4$  include decay of organic material, natural gas fields, cattle, and landfills.

 $N_2O$  is a colorless gas that can cause euphoria, dizziness, and slight hallucinations when exposed to higher concentrations. Sources include agricultural sources (e.g., microbial processes in soil and water, fertilizer) and industrial processes (e.g., fossil fuel-fired power plants, vehicle emissions, nylon production).

Fluorinated gases are synthetic and emitted from a variety of industrial processes. HFCs are human-made chemicals used as a substitute for chlorofluorocarbons for automobile air conditioners and refrigerants.

PFCs are very stable in the lower atmosphere and have long lifetimes (between 10,000 and 50,000 years). The two main sources of PFCs are primary aluminum production and semiconductor manufacturing.

SF<sub>6</sub> is an inorganic, colorless, odorless, nontoxic, nonflammable gas used for insulation in electric power transmission and distribution equipment, semiconductor manufacturing, the magnesium industry, and as a tracer gas for leak detection.

### **Global Warming Potential**

The Intergovernmental Panel on Climate Change developed the global warming potential (GWP) concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP of a GHG is defined as the ratio of the time-integrated radiative forcing from the instantaneous release of one kilogram of a trace substance relative to that of one kilogram of a reference gas. The reference gas used is  $CO_2$ . Therefore, GWP-weighted emissions are measured in metric tons (MT) of  $CO_2$  equivalent ( $CO_2$ e). It was assumed that the GWP for  $CH_4$  is 25 (which means that emissions of 1 MT of  $CH_4$  are equivalent to emissions of 25 MT of  $CO_2$ ), the GWP for  $N_2O$  is 298, and the GWP for  $SF_6$  is 22,800 based on the Intergovernmental Panel on Climate Change Fourth Assessment Report (IPCC 2007). These GWPs are also codified by the EPA in 40 CFR 98.

# 3.2 Air Quality Regulatory Setting

# 3.2.1 Federal Regulations

#### 3.2.1.1 Clean Air Act

The U.S. Supreme Court ruled on April 2, 2007, that CO₂ is an air pollutant as defined under the CAA, and that the EPA has the authority to regulate emissions of GHGs. Responding to the mounting issue of climate change, the EPA has taken actions to regulate, monitor, and potentially reduce GHG emissions.

## 3.2.1.2 Mandatory Greenhouse Gas Reporting Rule (40 CFR 98)

On September 22, 2009, the EPA issued a final rule for mandatory reporting of GHGs from large GHG emission sources in the United States. In general, this national reporting requirement provides the

EPA with accurate and timely GHG emissions data from facilities that emit 25,000 MT or more of CO<sub>2</sub> per year. These publicly available data allow the reporters to track their own emissions, compare them to similar facilities, and help identify cost effective opportunities to reduce emissions in the future. Reporting is at the facility level, except that certain suppliers of fossil fuels and industrial GHGs along with vehicle and engine manufacturers report at the corporate level. An estimated 85 percent of the total United States GHG emissions, from approximately 10,000 facilities, are covered by this final rule.

# 3.2.1.3 Endangerment and Cause or Contribute Findings for Greenhouse Gases under the Clean Air Act

On December 7, 2009, the EPA adopted its Proposed Endangerment and Cause or Contribute Findings for Greenhouse Gases under the CAA (Endangerment Finding). The Endangerment Finding is based on Section 202(a) of the CAA, which states that the Administrator (of EPA) should regulate and develop standards for "emission[s] of air pollution from any class or classes of new motor vehicles or new motor vehicle engines, which in [its] judgment cause, or contribute to, air pollution which may reasonably be anticipated to endanger public health or welfare." The rule addresses Section 202(a) in two distinct findings. The first addresses whether the concentrations of the six key GHGs ( $CO_2$ ,  $CH_4$ ,  $N_2O$ , HFCs, PFCs, and  $SF_6$ ) in the atmosphere threaten the health and welfare of current and future generations. The second addresses whether the combined emissions of GHGs from new motor vehicles and motor vehicle engines contribute to atmospheric concentrations of GHGs and therefore the threat of climate change.

The Administrator found that atmospheric concentrations of GHGs endanger the public health and welfare within the meaning of Section 202(a) of the CAA. The evidence supporting this finding consists of human activity resulting in "high atmospheric levels" of GHG emissions, which are most likely responsible for increases in average temperatures and other climatic changes. Furthermore, the observed and projected results of climate change (e.g., higher likelihood of heat waves, wildfires, droughts, sea level rise, and higher intensity storms) are a threat to the public health and welfare. Therefore, GHGs were found to endanger the public health and welfare of current and future generations.

The Administrator also found that GHG emissions from new motor vehicles and motor vehicle engines are contributing to air pollution, which is endangering public health and welfare. EPA's final findings respond to the 2007 U.S. Supreme Court decision that GHGs fit within the CAA definition of air pollutants. The findings do not in and of themselves impose any emission reduction requirements but rather allow the EPA to define the GHG standards proposed earlier in 2009 for new light-duty vehicles as part of the joint rulemaking with the U.S. Department of Transportation.

Various subsequent federal rulemakings limit GHG emissions from fossil fuel-fired power plants through EPA's major stationary source permitting program and through EPA's New Source Performance Standards. These rulemakings have been subject to court challenges and political manipulation, such that applicants for air permits are required to evaluate the current status of the regulatory requirements at the time of application filing. These GHG rules do not apply to the activities associated with the Project.

#### 3.2.1.4 Presidential Executive Orders 13990 and 14008

Executive Order 13990 (Protecting Public Health and the Environment and Restoring Science to Tackle the Climate Crisis), issued on January 20, 2021, directs all federal executive departments and agencies to immediately review and take action to address the promulgation of federal regulations and other actions that conflict with important national objectives and to immediately commence work to confront the climate crisis (86 FR 7037; 2021).

Executive Order 14008 (Tackling the Climate Crisis at Home and Abroad), issued on January 27, 2021, declares the Administration's policy to build resilience against the impacts of existing climate change and projected changes according to current trajectories in both the United States and with other countries abroad (86 FR 7619; 2021).

## 3.2.2 State Regulations

#### 3.2.2.1 California Air Resources Board

CARB is responsible for the coordination and oversight of State and local air pollution control programs in California. Various Statewide and local initiatives to reduce California's contribution to GHG emissions have raised awareness about climate change and its potential for severe long-term adverse environmental, social, and economic effects. California is a significant emitter of CO<sub>2</sub>e and produced 424 million gross metric tons of CO<sub>2</sub>e in 2017. In the United States, transportation, industrial operations, and utility sectors produce over 75 percent of all GHGs emitted.

The State legislature has enacted a series of bills that constitute the most aggressive program to reduce GHGs of any state in the nation.

#### **Assembly Bill 1493**

In 2002, California passed AB 1493, which requires CARB to develop and implement regulations to reduce automobile and light truck GHG emissions beginning with the 2009 model year.

#### **Executive Order S-3-05**

In June 2005, Executive Order S-3-05 was signed to reduce California's GHG emissions to: (1) 2000 levels by 2010; (2) 1990 levels by the 2020; and (3) 80 percent below the 1990 levels by the year 2050. In 2006, this goal was further reinforced with the passage of AB 32, the Global Warming Solutions Act of 2006.

# Assembly Bill 32 (California Global Warming Solutions Act of 2006), Senate Bill 32, Assembly Bill 197, and Related

The California Global Warming Solutions Act of 2006 (AB 32; California Health and Safety Code Division 25.5, Sections 38500 to 38599) establishes regulatory, reporting, and market mechanisms to achieve quantifiable reductions in GHG emissions and establishes a cap on statewide GHG emissions. AB 32 requires the State to create an opportunity for interested parties to comment on the scoping plan by conducting public workshops which are required in regions with low-income communities and

minority populations. AB 32 required that statewide GHG emissions be reduced to 1990 levels by 2020. In 2016, statewide GHG emissions fell below the levels recorded in 1990, 4 years ahead of schedule.

To achieve the goals of AB 32, CARB adopted a Scoping Plan, which includes market mechanisms and rules to achieve "real, quantifiable, cost-effective reductions of greenhouse gases." The Plan evaluates opportunities for sector-specific reductions, integrates early actions and additional GHG reduction measures by both CARB and the State's Climate Action Team, identifies additional measures to be pursued as regulations, and outlines an adopted role of a cap-and-trade program.

In 2016, the Legislature passed Senate Bill (SB) 32, which codifies a 2030 GHG emissions reduction target of 40 percent below 1990 levels. With SB 32, the Legislature passed companion legislation, AB 197, which provides additional direction for developing the Scoping Plan. On December 14, 2017, CARB adopted a second update to the Scoping Plan. The 2017 Scoping Plan details how the State will reduce GHG emissions to meet the 2030 target set by Executive Order B-30-15 and codified by SB 32. Other objectives listed in the 2017 Scoping Plan are to provide direct GHG emissions reductions; support climate investment in disadvantaged communities; and support the Clean Power Plan and other federal actions.

Executive Order B-30-15 (April 29, 2015) set an "interim" statewide emission target to reduce GHG emissions to 40 percent below 1990 levels by 2030 and directed state agencies with jurisdiction over GHG emissions to implement measures pursuant to statutory authority to achieve this 2030 target and the 2050 target of 80 percent below 1990 levels. Specifically, the Executive Order directed CARB to update the Scoping Plan to express this 2030 target in metric tons.

CARB's "2022 Scoping Plan for Achieving Carbon Neutrality" (CARB 2022b) was adopted on December 15, 2022. The Plan sets a path to achieve targets for carbon neutrality and reduce anthropogenic GHG emissions by 85 percent below 1990 levels by 2045 in accordance with AB 1279. To achieve the targets of AB 1279, the 2022 Scoping Plan relies on existing and emerging fossil fuel alternatives and clean technologies, as well as carbon capture and storage. Specifically, the 2022 Scoping Plan focuses on zero-emission transportation; phasing out use of fossil gas use for heating homes and buildings; reducing chemical and refrigerants with high GWP; providing communities with sustainable options for walking, biking, and public transit; displacing fossil-fuel fired electrical generation through use of renewable energy alternatives (e.g., solar arrays and wind turbines); and scaling up new options such as green hydrogen. The 2022 Scoping Plan sets one of the most aggressive approaches to reach carbon neutrality in the world.

The Scoping Plan addresses AB 1279, SB 905, SB 1065, SB 1075, and other legislation and executive orders addressing GHG reductions in various manufacturing sectors and managing natural lands.

In 2022, California passed AB 1279 (California Crisis Act), which introduced a statewide policy to achieve net zero GHG emissions by 2045 and maintain net negative GHG emissions thereafter. Furthermore, AB 1279 ensures that by 2045, statewide anthropogenic GHG emissions are reduced to at least 85 percent below the 1990 levels. This bill would require the state board to work with relevant state agencies to ensure that updates to the scoping plan identify and recommend measures to achieve these policy goals and to identify and implement a variety of policies and strategies that

enable CO<sub>2</sub> removal solutions and carbon capture, utilization, and storage technologies in California, as specified. As stated above, these policies were incorporated into the 2022 Scoping Plan.

SB 905 requires the state board, along with appropriate state and local agencies, to "adopt regulations for a unified permit application for the construction and operation of carbon dioxide capture, removal, or sequestration projects" by January 1. 2025. The state board is required to develop a public database to track such projects.

SB 1075 requires the state board to specify information relative to the deployment, development, and use of hydrogen as part of the evaluation posted to the state board's internet website by June 1, 2024. Additionally, the Energy Commission is expected "to study and model potential growth for hydrogen and its role in decarbonizing" as part of the 2023 and 2025 editions of the integrated energy policy report.

SB 1206 mandates a stepped sales prohibition on newly produced high-GWP HFCs to transition California's economy toward recycled and reclaimed HFCs for servicing existing HFC-based equipment. Additionally, SB 1206 also requires CARB to develop regulations to increase the adoption of very low GWP (i.e., GWP < 10) and no-GWP technologies in sectors that currently rely on higher-GWP HFCs.

In 2002, SB 1078 established a Renewable Portfolio Standard (RPS), which required an annual increase in renewable generation by utilities with a goal of 20 percent renewable generation by 2010. SB X1-2 expanded the RPS by establishing a renewable energy target of 20 percent of the total electricity sold to retail customers in California per year by 2013, and 33 percent by 2020 and subsequent years. SB 350 further expanded the RPS by establishing a goal of 50 percent of the total electricity sold to retail customers in California per year by 2030. SB 100 mandates that the California Public Utilities Commission, CEC, and CARB plan for 100 percent of total retail sales of electricity in California to come from eligible renewable energy resources and zero-carbon resources by December 31, 2045. The statute requires these agencies to issue a joint policy report on SB 100 every 4 years. The first of these reports was issued in 2021. This Scoping Plan reflects the SB 100 Core Scenario resource mix with a few minor updates. This bill also updates the state's RPS to include the following interim targets:

- 44 percent of retail sales procured from eligible renewable sources by December 31, 2024;
- 52 percent of retail sales procured from eligible renewable sources by December 31, 2027; and
- 60 percent of retail sales procured from eligible renewable sources by December 31, 2030.

#### Executive Order B-55-18 and SB 100 (100 Percent Clean Energy Act of 2018)

SB 100, also known as the California Renewables Portfolio Standard Program: Emissions of Greenhouse Gases and as the 100 Percent Clean Energy Act of 2018, was approved by the California legislature and signed by Governor Brown in September 2018. SB 100 declares that CARB should plan for 100 percent total retail sales of electricity in California to come from eligible renewable energy resources and zero-carbon resources by the end of 2045. As stated above, SB 100 also set interim goals, accelerating the RPS requirement to 50 percent from renewable energy sources by 2026 and 60 percent by 2030. In addition to targets under AB 32 and SB 32, Executive Order B-55-18 establishes a

carbon neutrality goal for the state of California by 2045 and sets a goal to maintain net negative emissions thereafter. The Executive Order directs the California Natural Resources Agency, California Environmental Protection Agency, the Department of Food and Agriculture, and CARB to include sequestration targets in the Natural and Working Lands Climate Change Implementation Plan consistent with the carbon neutrality goal.

#### **Senate Bill 375**

SB 375 establishes mechanisms for the development of regional targets for reducing passenger vehicle GHG emissions. CARB adopted the vehicular GHG emissions reduction targets, in consultation with the metropolitan planning organizations (MPOs), which require a 7 to 8 percent reduction by 2020 and a 13 to 16 percent reduction by 2035, for each MPO. SB 375 recognizes the importance of achieving significant GHG reductions by working with cities and counties to change land use patterns and improve transportation alternatives. The Metropolitan Transportation Commission (MTC) is the federally designated MPO for Solano County.

### 3.2.3 Regional and Local Regulations

### 3.2.3.1 Yolo Solano Air Quality Management District

YSAQMD does not provide any specific guidance for assessing the impacts of GHGs from land use projects located within its boundary.

### 3.2.3.2 Association of Bay Area Governments

The Association of Bay Area Governments (ABAG) is the comprehensive regional planning agency and council of governments serving nine counties and 101 cities and towns of the San Francisco Bay region including Solano County. As stated earlier, MTC is the federally designated MPO for Solano County that is required to prepare a Sustainable Community Strategy in their Regional Transportation Plan. Per state law, MTC and ABAG share joint responsibility for the long-range regional plan, called Plan Bay Area, and they develop the plan with local and regional partner agencies. This plan must be updated every 4 years. ABAG and MTC adopted Plan Bay Area 2050 in October 2021. This plan contains strategies across different elements such as housing, the economy, transportation, and the environment that were designed based on the vision for a more equitable and resilient future for Bay Area residents. When implemented together as one package of policies and investments, the 35 plan strategies reduce GHG emissions by focusing housing and commercial construction in walkable, transit-accessible places; investing in transit and active transportation; and shifting the location of jobs to encourage shorter commutes (MTC and ABAG 2021). As of June 2024, Plan Bay Area 2050+, which is a limited and focused update to Plan Bay Area 2050, is being developed.

### 3.2.3.3 Solano County

Following the 2008 update to the General Plan, which recognized the threat of global climate change, the County adopted its Climate Action Plan (CAP). This plan recommends several measures and actions that the community can take to reduce both emissions and communitywide contributions to global climate change. The CAP includes a communitywide GHG emissions reduction target of 20

percent below 2005 baseline emission levels by 2020 (Solano County 2011). The County has not adopted an updated CAP.

### 3.3 Significance Criteria and Methodology

### 3.3.1 Thresholds of Significance

The state of California has developed guidelines to address the significance of GHG impacts based on Appendix G of the CEQA Guidelines, which indicates that a project has significant air quality impact if the project:

- Generates GHG emissions, either directly or indirectly, that may have a significant impact on the environment; and
- Conflicts with an applicable plan, policy, or regulations adopted for the purpose of reducing the emissions of GHGs.

YSAQMD has not established a threshold of significance for GHGs. As it is unlikely that any one project would substantially contribute to global climate change, the District considers GHG impacts to be cumulative in nature, and lead agencies evaluate whether a project's incremental direct and indirect GHG emissions are cumulatively considerable. According to the District, if the lead agency jurisdiction has adopted a CAP or General Plan goals and policies with regard to GHGs, the environmental review should base its analysis on the provisions of those documents. If the lead agency jurisdiction has not adopted a CAP or General Plan goals and policies, then the District recommends that lead agencies consider a project's total emissions in relation to the AB 32 and AB 32 Scoping Plan goals (and additional state goals as they are adopted) or the thresholds established by other jurisdictions.

Although Solano County has adopted a CAP, it does not identify any quantitative thresholds for significance evaluation. Therefore, the interim threshold for operational emissions of industrial projects proposed by the California Air Pollution Control Officers Association (CAPCOA) is used herein (CAPCOA 2008). This threshold is consistent with California's climate-stabilization target (identified in AB 32).

Following CAPCOA's analysis of development applications in various cities, it was determined that the threshold of 900 MT  $CO_2$ e per year would achieve the objective of 90 percent capture and ensure that new development projects would keep the state of California on track to meet the goals of AB 32. The 900 MT  $CO_2$ e threshold is applied to evaluate whether the project would generate GHG emissions that may have a significant impact on the environment.

### 3.3.2 Approach and Methodology

A GHG analysis is required to be included in CEQA documents for all non-exempt projects. YSAQMD supports the use of the interim thresholds as established by the CAPCOA when adopted thresholds are not applicable. A new threshold has not been established to meet SB 32 targets beyond 2020. Additionally, based on the SCAQMD *Draft Guidance Document – Interim CEQA GHG Significance Threshold*, Project construction emissions can be amortized by calculating total construction period emissions and dividing by the 30-year lifetime of the Project (SCAQMD 2008).

For this Project, the primary source of GHGs is the combustion of fuel in construction equipment, in motor vehicles used to haul materials, and in motor vehicles used by workers commuting to and from the site.

There are three primary GHGs emitted from fuel combustion:  $CO_2$ ,  $CH_4$ , and  $N_2O$ . GHG emissions are presented as  $CO_2$ e and are computed based on GWP. The  $CH_4$  GWP is 25 times that of  $CO_2$ , and the  $N_2O$  GWP is 298 times that of  $CO_2$ . Mathematically, the  $CO_2$ e can be represented by the following equation:

CO<sub>2</sub>e Emissions = CO<sub>2</sub> Emissions + 25 × CH<sub>4</sub> Emissions + 298 × N<sub>2</sub>O Emissions

The CalEEMod model was used to estimate the GHG emissions during the construction phase of the proposed Project. Based on the construction schedule, types and quantities of construction equipment, and haul trucks, etc., the maximum CO<sub>2</sub>e emissions were estimated. The CalEEMod model quantifies CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O emissions, as well as common refrigerant GHG emissions. For typical diesel-fueled combustion equipment used in construction activities, the emissions factors adjusted with global warming equivalence are the following:

- 1. CO2 emission factors are 22.4 pounds of CO2e per gallon of fuel consumed.
- 2. CH4 emission factors are 0.065 pounds of CO2e per gallon of fuel consumed.
- 3. N2O emission factors are 0.068 pounds of CO2e per gallon of fuel consumed.

As shown in these emission factors, the CO<sub>2</sub> profile is 99 percent of the total GHG emissions generated in combustion equipment.

Additionally, GHG emissions are associated with fugitive emissions of  $SF_6$  from gas-insulated switchgear equipment, such as the high voltage circuit breakers at the on-site substation. The  $SF_6$  global warming equivalence is 22,800 times that of  $CO_2$ . The Project will have four 245-kV voltage circuit breakers, each with 125 pounds of  $SF_6$  for a total of 500 pounds, and a maximum leak rate of 0.5 percent per year.  $CO_2$ e resulting from  $SF_6$  gas leakage can be represented by the following equation:

 $CO_2e$  Emissions =  $SF_6$  gas contained in equipment (lbs) x 0.5% leak rate per year x 0.0004536 MT/lb x 22,800

The BESS enclosures used in the Project will use R-513a refrigerant for cooling. The Project will initially have a total of 384 enclosures; however, battery augmentation will be performed periodically to offset battery degradation and maintain Project performance commitments. Current augmentation plans require a total of 423 enclosures by year 15, which is the mid-point of the Project's life cycle and therefore representative for estimating Project emissions<sup>2</sup>. Each enclosure will have a refrigerant quantity of 9.1 kilograms. The global warming equivalence is 573 times that of CO<sub>2</sub> (Honeywell

<sup>&</sup>lt;sup>2</sup> The Application presented a conservative full buildout scenario of 544 BESS enclosures; however, this quantity exceeds requirements to maintain Project performance. The Applicant currently has commercial commitments to provide 300 MW and 1,200 MWh of energy storage for the initial 15 years of the Project's operating life. Commercial commitments for years 16 through 30 are currently undefined. Therefore, augmentation through year 15 (mid-point) is used to represent the average number of enclosures over the Project life.





Products 2024). Based on a conservative annual leak rate assumption of 2 percent, R-513a GHG emissions from refrigerant leakage can be represented by the following equation:

 $CO_2$ e Emissions = R-513a contained in equipment (lbs) x 2% leak rate per year x 0.0004536 MT/lb x 573

### 3.4 Impact Analysis

# 3.4.1 Would the Project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

#### 3.4.1.1 Construction

**Less Than Significant Impact**. Construction of the Project will generate GHG emissions, which can contribute to global climate change. This analysis is provided in response to the subject of global climate change and, specifically, in response to the California Legislature's passage and the Governor's signing of AB 32, which is intended to control and reduce the emission of global warming gases in California; and SB 97, which directs the Office of Planning and Research and the California Resources Agency to develop CEQA Guidelines on how local agencies should analyze and, if necessary, mitigate for GHG emissions.

Construction emissions will be associated with vehicle engine exhaust from construction equipment and vehicles, vendor trips, construction worker commuting trips, and the stationary generators to be used during construction. CalEEMod also calculates indirect GHG emissions from electricity generation. Construction-related GHG emissions are considered temporary and short term and, as described above, are amortized over a 30-year period and added to the calculated operation phase emissions for comparison to the significance threshold (SCAQMD 2008). As shown in Table 14, amortized short-term construction  $CO_2e$  emissions are estimated to be 123 MT  $CO_2e$ . As shown in Table 15, when added to the operational GHG emissions, the Project will result in a less than significant cumulative impact in terms of climate change.

Table 14. Estimated Annual Construction Greenhouse Gas Emissions

|   | CO₂   | CH <sub>4</sub> | N <sub>2</sub> O |
|---|-------|-----------------|------------------|
| Total Project Emissions   | Emiss | ons (Metric     | tons)            |
| Construction GHG Emissions  | 3,626 | 0.11            | 0.20             |
| Global Warming Equivalence Factor   | 1     | 25              | 298              |
| Equivalent CO <sub>2</sub> e Emissions <sup>1/</sup>                                | 3,626 | 2.70            | 59.76            |
| Total Construction GHG (CO <sub>2</sub> e)  |       | 3,688           |                  |
| Total Construction GHG (CO <sub>2</sub> e) Amortized Annual Emissions over 30 Years |       | 123             |                  |

<sup>1/</sup> Equivalent CO₂e Emissions = Construction GHG Emissions x Global Warming Equivalent Factor

### 3.4.1.2 Operations

**Less Than Significant Impact**. Operation of the Project will generate GHG emissions through motor vehicle trips to and from the Project site, occasional use of heavy-duty trucks, waste generation, and

CO<sub>2</sub> - carbon dioxide; CO<sub>2</sub>e - carbon dioxide equivalent; CH<sub>4</sub> - methane; GHG - greenhouse gas; N<sub>2</sub>O - nitrogen oxides

electricity use. CalEEMod was used to calculate the annual GHG emissions based on the operational assumptions described in Section 2.4.2.2.

The estimated operational GHG emissions from the Project are shown in Table 15.

Table 15. Estimated Annual Operational Greenhouse Gas Emissions

|  | CO <sub>2</sub> | CH <sub>4</sub> | N₂O           | SF <sub>6</sub> | R      |
|--|-----------------|-----------------|---------------|-----------------|--------|
| Annual   |                 | Emissio         | ns (Metric to | ons)            |        |
| Operational GHG Emissions  | 3.42            | 0.0003          | 0.0002        | 0.0011          | 0.0770 |
| Global Warming Equivalence Factor                                      | 1               | 25              | 298           | 22,800          | 573    |
| Equivalent CO <sub>2</sub> e Emissions <sup>1</sup>                    | 3.42            | 0.01            | 0.06          | 25.86           | 44.10  |
| Total Operational GHG Emissions  |                 |                 | 73            |                 |        |
| Total Operational GHG Emissions + Amortized Construction GHG Emissions |                 |                 | 196           |                 |        |

<sup>1/</sup> Equivalent CO₂e Emissions = Operation GHG Emissions x Global Warming Equivalent Factor

As shown in Table 15, estimated annual Project-operational GHG emissions will be approximately 73 MT  $CO_2e$  per year as a result of Project operation. Estimated maximum annual operational emissions and amortized construction emissions will be approximately 196 MT  $CO_2e$  per year. As shown, the total annual emissions will not exceed the proposed interim GHG significance threshold of 900 MT  $CO_2e$  per year. Because the Project's GHG emissions will not result in a cumulatively considerable contribution, the Project will result in a less than significant cumulative impact in terms of climate change.

The Project will also have indirect GHG emissions during operation due to energy losses during transmission and battery charging cycles, and due to auxiliary loads including BESS module thermal management systems (TMS), supervisory control and data acquisition system, and other energy-consuming equipment. Based on the total BESS storage capacity of 1,200 MWh, approximately 1,404 MWh of grid electric energy will be drawn for each full charging cycle at year 15 (representing the midpoint or average), of which approximately 204 MWh will be lost due to round-trip losses. Each of the Project's 423 battery modules (quantity at year 15) will also be equipped with a TMS that provides cooling (or heating) of the battery modules as required to maintain the allowable operating temperature range. The total auxiliary load, including TMS and other energy consumption, is estimated to be 8.46 MW at year 15.

Conservatively assuming up to 365 full charging cycles per year, transmission and BESS charging losses may result in a total energy loss of up to 74,424 MWh of grid electric energy per year. Assuming that the BESS operates for an average of 8 hours per day (one charge and discharge cycle), BESS auxiliary systems are estimated to consume approximately 26,003 MWh of grid electric energy per year (at year 15).

Table 16 presents the estimated indirect GHG emissions during operation of the Project, based on default GHG emission factors provided by CalEEMod for the Pacific Gas & Electric Company, which serves Solano County. One of the key objectives of the Project is to allow for an increased percentage

CO<sub>2</sub> – carbon dioxide; CO<sub>2</sub>e – carbon dioxide equivalent; CH<sub>4</sub> – methane; GHG – greenhouse gas; N<sub>2</sub>O – nitrogen oxides, R – R-513a

of renewable energy use, reducing GHG emissions by storing renewable energy for use during times when demand exceeds renewable energy generation. Therefore, the indirect emission estimates presented in this analysis are conservative since they are based on current PG&E GHG emission factors. Although the conservatively estimated indirect GHG emissions would be greater than the proposed interim GHG significance threshold of 900 MT CO<sub>2</sub>e per year, that threshold is intended to apply only to direct, rather than indirect, GHG emissions from a project.

Table 16. Estimated Indirect Operational Greenhouse Gas Emissions<sup>1</sup>

|  | CO <sub>2</sub> | CH₄             | N <sub>2</sub> O |
|--|-----------------|-----------------|------------------|
| CalEEMod Electric Utility GHG Emission Factors               | Emis            | sions (lb/MW    | h)               |
| Pacific Gas and Electric Company                             | 203.983         | 0.033           | 0.004            |
|  | CO <sub>2</sub> | CH₄             | N <sub>2</sub> O |
| Annual Indirect GHG Emissions                                | Emiss           | ions (Metric to | ns)              |
| Indirect GHG Emissions from Round-Trip Efficiency Losses     | 6,886           | 1.11            | 0.14             |
| Indirect GHG Emissions from Auxiliary Loads                  | 2,406           | 0.39            | 0.05             |
| Total Indirect GHG Emissions from BESS Operation             | 9,292           | 1.50            | 0.18             |
| Global Warming Equivalence Factor                            | 1               | 25              | 298              |
| Equivalent CO <sub>2</sub> e Emissions <sup>2</sup>          | 9,292           | 37.58           | 54.30            |
| Total Indirect Operational GHG Emissions (CO <sub>2</sub> e) |                 | 9,384           |                  |

<sup>1/</sup> Estimated emissions are based on year 15 energy usage projections.

CO<sub>2</sub> - carbon dioxide; CO<sub>2</sub> - carbon dioxide equivalent; CH<sub>4</sub> - methane; GHG - greenhouse gas; N<sub>2</sub>O - nitrous oxide

# 3.4.2 Would the Project conflict with or obstruct implementation of the applicable air quality plan?

**No Impact**. While GHGs will be generated from construction and occasional operation and maintenance activities, the Project will result in a potential net reduction in GHG emissions, by providing battery storage capacity that will enable the replacement of electricity generated by fossil fuels. The Project will support the State policies necessary to meet the California renewable energy standards. As stated earlier, CARB'S Scoping Plan addresses AB 1279, SB 905, SB 1065, SB 1075, and other legislation and executive orders addressing GHG reductions in various manufacturing sectors and managing natural lands.

The Scoping Plan lays out a roadmap for achieving carbon neutrality in California by 2045 or sooner. The 2022 Plan addresses recent legislation and extends and expands upon earlier CARB plans with a target of reducing anthropogenic emissions to 85 percent below 1990 levels by 2045. The carbon neutrality goal is new in the 2022 Plan and proposes both emissions reductions as well as capture and storage. According to the Scoping Plan, the estimated resources needed to meet future energy demand is approximately 37 gigawatts of battery storage by 2045. The Scoping Plan also acknowledges that battery storage projects over the period 2022-2035 will need to increase from the current proposed projects. The proposed Project will substantially increase local energy storage capacity and address the limitations of the electrical grid by the increasing demand for renewable energy. Layering energy storage systems into the energy grid improves grid reliability and makes it more resilient to disturbances and peaks in energy demand. The Project and other energy storage

<sup>2/</sup> Equivalent CO<sub>2</sub>e Emissions = Indirect GHG Emissions x Global Warming Equivalent Factor.

systems are used to supply power during brief disturbances, reduce outages and associated impacts to the community, and substitute for certain large footprint transmission and disruption upgrades.

Therefore, the Project will be consistent with the State policies and impacts will be less than significant.

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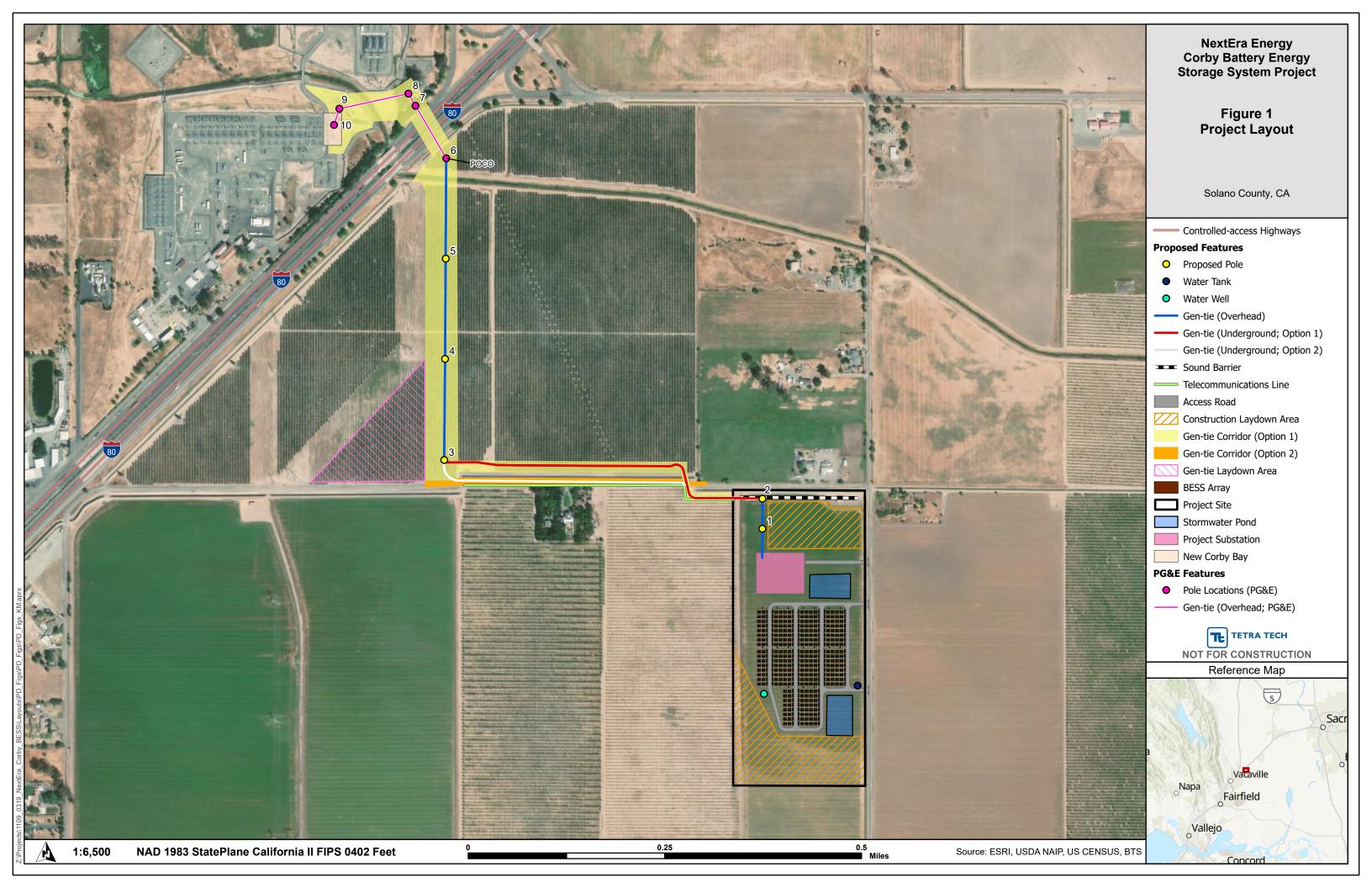
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## **FIGURES**



**ATTACHMENT A: CALEEMOD** 

# Corby BESS AFC Annual (Mitigated) Detailed Report

### Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.1. Construction Emissions Compared Against Thresholds
  - 2.2. Construction Emissions by Year, Unmitigated
  - 2.3. Construction Emissions by Year, Mitigated
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
  - 2.6. Operations Emissions by Sector, Mitigated
- 3. Construction Emissions Details
  - 3.1. Gen-tie Site Prep (Orchard Removal) (2026) Unmitigated
  - 3.2. Gen-tie Site Prep (Orchard Removal) (2026) Mitigated
  - 3.3. Site Preparation (2026) Unmitigated

- 3.4. Site Preparation (2026) Mitigated
- 3.5. Grading (2026) Unmitigated
- 3.6. Grading (2026) Mitigated
- 3.7. Battery/Container Installation (2026) Unmitigated
- 3.8. Battery/Container Installation (2026) Mitigated
- 3.9. Substation Installation (2026) Unmitigated
- 3.10. Substation Installation (2026) Mitigated
- 3.11. Gen-tie Foundations, Tower Erection, and Underground Installation (2026) Unmitigated
- 3.12. Gen-tie Foundations, Tower Erection, and Underground Installation (2026) Mitigated
- 3.13. Gen-tie Stringing and Pulling (2026) Unmitigated
- 3.14. Gen-tie Stringing and Pulling (2026) Mitigated
- 3.15. Gen-tie Stringing and Pulling (2027) Unmitigated
- 3.16. Gen-tie Stringing and Pulling (2027) Mitigated
- 3.17. Commissioning (2027) Unmitigated
- 3.18. Commissioning (2027) Mitigated
- 3.19. Generator Only Phase Construction (2026) Unmitigated
- 3.20. Generator Only Phase Construction (2026) Mitigated
- 3.21. Generator Only Phase Construction (2027) Unmitigated

- 3.22. Generator Only Phase Construction (2027) Mitigated
- 3.23. GW Well Drilling/Testing (2026) Unmitigated
- 3.24. GW Well Drilling/Testing (2026) Mitigated
- 3.25. GW Well Equipment Installation (2026) Unmitigated
- 3.26. GW Well Equipment Installation (2026) Mitigated
- 3.27. Telecom (2026) Unmitigated
- 3.28. Telecom (2026) Mitigated
- 3.29. Telecom (2027) Unmitigated
- 3.30. Telecom (2027) Mitigated
- 3.31. Onsite Water Tank (2026) Unmitigated
- 3.32. Onsite Water Tank (2026) Mitigated
- 3.33. Onsite Water Tank (2027) Unmitigated
- 3.34. Onsite Water Tank (2027) Mitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
    - 4.1.2. Mitigated
  - 4.2. Energy

- 4.2.1. Electricity Emissions By Land Use Unmitigated
- 4.2.2. Electricity Emissions By Land Use Mitigated
- 4.2.3. Natural Gas Emissions By Land Use Unmitigated
- 4.2.4. Natural Gas Emissions By Land Use Mitigated
- 4.3. Area Emissions by Source
  - 4.3.1. Unmitigated
  - 4.3.2. Mitigated
- 4.4. Water Emissions by Land Use
  - 4.4.1. Unmitigated
  - 4.4.2. Mitigated
- 4.5. Waste Emissions by Land Use
  - 4.5.1. Unmitigated
  - 4.5.2. Mitigated
- 4.6. Refrigerant Emissions by Land Use
  - 4.6.1. Unmitigated
  - 4.6.2. Mitigated
- 4.7. Offroad Emissions By Equipment Type
  - 4.7.1. Unmitigated

- 4.7.2. Mitigated
- 4.8. Stationary Emissions By Equipment Type
  - 4.8.1. Unmitigated
  - 4.8.2. Mitigated
- 4.9. User Defined Emissions By Equipment Type
  - 4.9.1. Unmitigated
  - 4.9.2. Mitigated
- 4.10. Soil Carbon Accumulation By Vegetation Type
  - 4.10.1. Soil Carbon Accumulation By Vegetation Type Unmitigated
  - 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type Unmitigated
  - 4.10.3. Avoided and Sequestered Emissions by Species Unmitigated
  - 4.10.4. Soil Carbon Accumulation By Vegetation Type Mitigated
  - 4.10.5. Above and Belowground Carbon Accumulation by Land Use Type Mitigated
  - 4.10.6. Avoided and Sequestered Emissions by Species Mitigated
- 5. Activity Data
  - 5.1. Construction Schedule
  - 5.2. Off-Road Equipment
    - 5.2.1. Unmitigated

- 5.2.2. Mitigated
- 5.3. Construction Vehicles
  - 5.3.1. Unmitigated
  - 5.3.2. Mitigated
- 5.4. Vehicles
  - 5.4.1. Construction Vehicle Control Strategies
- 5.5. Architectural Coatings
- 5.6. Dust Mitigation
  - 5.6.1. Construction Earthmoving Activities
  - 5.6.2. Construction Earthmoving Control Strategies
- 5.7. Construction Paving
- 5.8. Construction Electricity Consumption and Emissions Factors
- 5.9. Operational Mobile Sources
  - 5.9.1. Unmitigated
  - 5.9.2. Mitigated
- 5.10. Operational Area Sources
  - 5.10.1. Hearths
    - 5.10.1.1. Unmitigated

- 5.10.1.2. Mitigated
- 5.10.2. Architectural Coatings
- 5.10.3. Landscape Equipment
- 5.10.4. Landscape Equipment Mitigated
- 5.11. Operational Energy Consumption
  - 5.11.1. Unmitigated
  - 5.11.2. Mitigated
- 5.12. Operational Water and Wastewater Consumption
  - 5.12.1. Unmitigated
  - 5.12.2. Mitigated
- 5.13. Operational Waste Generation
  - 5.13.1. Unmitigated
  - 5.13.2. Mitigated
- 5.14. Operational Refrigeration and Air Conditioning Equipment
  - 5.14.1. Unmitigated
  - 5.14.2. Mitigated
- 5.15. Operational Off-Road Equipment
  - 5.15.1. Unmitigated

- 5.15.2. Mitigated
- 5.16. Stationary Sources
  - 5.16.1. Emergency Generators and Fire Pumps
  - 5.16.2. Process Boilers
- 5.17. User Defined
- 5.18. Vegetation
  - 5.18.1. Land Use Change
    - 5.18.1.1. Unmitigated
    - 5.18.1.2. Mitigated
  - 5.18.1. Biomass Cover Type
    - 5.18.1.1. Unmitigated
    - 5.18.1.2. Mitigated
  - 5.18.2. Sequestration
    - 5.18.2.1. Unmitigated
    - 5.18.2.2. Mitigated
- 6. Climate Risk Detailed Report
  - 6.1. Climate Risk Summary
  - 6.2. Initial Climate Risk Scores

- 6.3. Adjusted Climate Risk Scores
- 6.4. Climate Risk Reduction Measures
- 7. Health and Equity Details
  - 7.1. CalEnviroScreen 4.0 Scores
  - 7.2. Healthy Places Index Scores
  - 7.3. Overall Health & Equity Scores
  - 7.4. Health & Equity Measures
  - 7.5. Evaluation Scorecard
  - 7.6. Health & Equity Custom Measures
- 8. User Changes to Default Data

## 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                             |
|-----------------------------|-----------------------------------|
| Project Name                | Corby BESS AFC Annual (Mitigated) |
| Construction Start Date     | 2/1/2026                          |
| Operational Year            | 2027                              |
| Lead Agency                 | _                                 |
| Land Use Scale              | Project/site                      |
| Analysis Level for Defaults | County                            |
| Windspeed (m/s)             | 2.70                              |
| Precipitation (days)        | 34.8                              |
| Location                    | 38.3922740342, -121.907417485     |
| County                      | Solano-Sacramento                 |
| City                        | Unincorporated                    |
| Air District                | Yolo/Solano AQMD                  |
| Air Basin                   | Sacramento Valley                 |
| TAZ                         | 837                               |
| EDFZ                        | 4                                 |
| Electric Utility            | Pacific Gas & Electric Company    |
| Gas Utility                 | Pacific Gas & Electric            |
| App Version                 | 2022.1.1.29                       |

## 1.2. Land Use Types

| Land Use Subtype           | Size | Unit              | Lot Acreage | Building Area (sq ft) |      | Special Landscape<br>Area (sq ft) | Population | Description |
|----------------------------|------|-------------------|-------------|-----------------------|------|-----------------------------------|------------|-------------|
| User Defined<br>Industrial | 40.3 | User Defined Unit | 40.3        | 89,530                | 0.00 | _                                 | _          | _           |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector       | #      | Measure Title                         |
|--------------|--------|---------------------------------------|
| Construction | C-5    | Use Advanced Engine Tiers             |
| Construction | C-9    | Use Dust Suppressants                 |
| Construction | C-10-A | Water Exposed Surfaces                |
| Construction | C-11   | Limit Vehicle Speeds on Unpaved Roads |

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

| Un/Mit.                   | TOG  | ROG  | NOx  | со   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Daily,<br>Summer<br>(Max) | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _      | _      | _    | _    | _    | _      |
| Unmit.                    | 16.8 | 14.0 | 132  | 151  | 0.33 | 3.54  | 99.2  | 102   | 3.27   | 11.0   | 13.6   | _    | 37,430 | 37,430 | 1.09 | 3.05 | 42.9 | 38,378 |
| Mit.                      | 3.95 | 3.76 | 36.8 | 137  | 0.20 | 0.69  | 10.6  | 11.3  | 0.69   | 2.15   | 2.84   | _    | 27,564 | 27,564 | 0.59 | 3.01 | 42.9 | 28,515 |
| %<br>Reduced              | 76%  | 73%  | 72%  | 9%   | 39%  | 80%   | 89%   | 89%   | 79%    | 80%    | 79%    | _    | 26%    | 26%    | 46%  | 1%   | _    | 26%    |
| Daily,<br>Winter<br>(Max) | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _      | _      | _    | _    | _    | _      |
| Unmit.                    | 19.9 | 16.6 | 154  | 175  | 0.40 | 4.20  | 69.1  | 73.3  | 3.88   | 7.90   | 11.8   | _    | 43,599 | 43,599 | 1.38 | 2.05 | 0.95 | 44,246 |
| Mit.                      | 5.13 | 4.74 | 47.8 | 171  | 0.24 | 0.80  | 9.08  | 9.89  | 0.80   | 1.91   | 2.71   | _    | 31,283 | 31,283 | 0.88 | 1.95 | 0.95 | 31,887 |
| %<br>Reduced              | 74%  | 71%  | 69%  | 3%   | 40%  | 81%   | 87%   | 87%   | 79%    | 76%    | 77%    | _    | 28%    | 28%    | 36%  | 5%   | _    | 28%    |
| Average<br>Daily<br>(Max) | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _      | _      | _    | _    | _    | _      |
| Unmit.                    | 8.34 | 6.90 | 67.8 | 73.9 | 0.18 | 1.81  | 32.2  | 34.0  | 1.68   | 3.68   | 5.36   | _    | 19,461 | 19,461 | 0.57 | 1.13 | 7.76 | 19,820 |

| Mit.            | 1.99 | 1.82 | 20.3 | 67.6 | 0.10 | 0.36 | 4.14 | 4.50 | 0.36 | 0.88 | 1.23 | _ | 13,408 | 13,408 | 0.32 | 1.08 | 7.76 | 13,747 |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| %<br>Reduced    | 76%  | 74%  | 70%  | 9%   | 44%  | 80%  | 87%  | 87%  | 79%  | 76%  | 77%  | _ | 31%    | 31%    | 43%  | 4%   | _    | 31%    |
| Annual<br>(Max) | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _      | _      | _    | _    | _    | _      |
| Unmit.          | 1.52 | 1.26 | 12.4 | 13.5 | 0.03 | 0.33 | 5.88 | 6.21 | 0.31 | 0.67 | 0.98 | _ | 3,222  | 3,222  | 0.09 | 0.19 | 1.29 | 3,281  |
| Mit.            | 0.36 | 0.33 | 3.71 | 12.3 | 0.02 | 0.07 | 0.76 | 0.82 | 0.06 | 0.16 | 0.23 | _ | 2,220  | 2,220  | 0.05 | 0.18 | 1.29 | 2,276  |
| %<br>Reduced    | 76%  | 74%  | 70%  | 9%   | 44%  | 80%  | 87%  | 87%  | 79%  | 76%  | 77%  | _ | 31%    | 31%    | 43%  | 4%   | _    | 31%    |

## 2.2. Construction Emissions by Year, Unmitigated

|                            |      |      |      |      |         |       |       |       |        |        | <i>'</i> |      |        |        |      |      |      |        |
|----------------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|----------|------|--------|--------|------|------|------|--------|
| Year                       | TOG  | ROG  | NOx  | СО   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T   | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
| Daily -<br>Summer<br>(Max) | _    | _    | _    | _    | _       | _     | _     | _     | _      | _      | _        | _    | _      | _      | _    | _    | _    | _      |
| 2026                       | 16.8 | 14.0 | 132  | 151  | 0.33    | 3.54  | 99.2  | 102   | 3.27   | 11.0   | 13.6     | _    | 37,430 | 37,430 | 1.09 | 3.05 | 42.9 | 38,378 |
| 2027                       | 4.31 | 3.60 | 33.6 | 42.4 | 0.08    | 0.65  | 38.4  | 39.0  | 0.60   | 4.05   | 4.65     | _    | 7,907  | 7,907  | 0.26 | 0.24 | 6.70 | 7,991  |
| Daily -<br>Winter<br>(Max) | _    | _    | _    | _    | _       | _     | _     | _     | _      | _      | _        | _    | _      | _      | _    | _    | _    | _      |
| 2026                       | 19.9 | 16.6 | 154  | 175  | 0.40    | 4.20  | 69.1  | 73.3  | 3.88   | 7.90   | 11.8     | _    | 43,599 | 43,599 | 1.38 | 2.05 | 0.95 | 44,246 |
| 2027                       | 6.85 | 5.71 | 52.6 | 61.9 | 0.14    | 1.26  | 46.3  | 47.5  | 1.16   | 4.94   | 6.04     | _    | 14,548 | 14,548 | 0.50 | 0.51 | 0.25 | 14,712 |
| Average<br>Daily           | _    | _    | _    | _    | _       | -     | -     | _     | _      | _      | _        | _    | _      | _      | _    | _    | -    | _      |
| 2026                       | 8.34 | 6.90 | 67.8 | 73.9 | 0.18    | 1.81  | 32.2  | 34.0  | 1.68   | 3.68   | 5.36     | _    | 19,461 | 19,461 | 0.57 | 1.13 | 7.76 | 19,820 |
| 2027                       | 1.24 | 1.03 | 9.56 | 11.5 | 0.02    | 0.21  | 7.95  | 8.16  | 0.19   | 0.85   | 1.04     | _    | 2,439  | 2,439  | 0.08 | 0.08 | 0.78 | 2,465  |
| Annual                     | _    | _    | _    | _    | _       | _     | _     | _     | _      | _      | _        | _    | _      | _      | _    | _    | _    | _      |
| 2026                       | 1.52 | 1.26 | 12.4 | 13.5 | 0.03    | 0.33  | 5.88  | 6.21  | 0.31   | 0.67   | 0.98     | _    | 3,222  | 3,222  | 0.09 | 0.19 | 1.29 | 3,281  |
| 2027                       | 0.23 | 0.19 | 1.74 | 2.11 | < 0.005 | 0.04  | 1.45  | 1.49  | 0.03   | 0.16   | 0.19     | _    | 404    | 404    | 0.01 | 0.01 | 0.13 | 408    |

### 2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

|                            |      |      |      | · J, | ,       | ,     |       |       | _      | <b>J</b> , |        |      |        |        |      |      |      |        |
|----------------------------|------|------|------|------|---------|-------|-------|-------|--------|------------|--------|------|--------|--------|------|------|------|--------|
| Year                       | TOG  | ROG  | NOx  | со   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D     | PM2.5T | BCO2 | NBCO2  | СО2Т   | CH4  | N2O  | R    | CO2e   |
| Daily -<br>Summer<br>(Max) | _    | _    | _    | _    | _       | _     | _     | _     | _      | _          | _      | _    | _      | _      | _    | _    | _    | _      |
| 2026                       | 3.95 | 3.76 | 36.8 | 137  | 0.20    | 0.69  | 10.6  | 11.3  | 0.69   | 2.15       | 2.84   | _    | 27,564 | 27,564 | 0.59 | 3.01 | 42.9 | 28,515 |
| 2027                       | 1.14 | 1.06 | 4.50 | 31.8 | 0.01    | 0.12  | 3.05  | 3.16  | 0.12   | 0.53       | 0.64   | _    | 2,433  | 2,433  | 0.04 | 0.19 | 6.70 | 2,498  |
| Daily -<br>Winter<br>(Max) | _    | _    | _    | _    | _       | _     | _     | _     | _      | _          | _      | _    | _      | _      | _    | _    | _    | _      |
| 2026                       | 5.13 | 4.74 | 47.8 | 171  | 0.24    | 0.80  | 9.08  | 9.89  | 0.80   | 1.91       | 2.71   | _    | 31,283 | 31,283 | 0.88 | 1.95 | 0.95 | 31,887 |
| 2027                       | 1.91 | 1.78 | 12.3 | 60.8 | 0.07    | 0.29  | 3.97  | 4.23  | 0.28   | 0.71       | 0.96   | _    | 9,074  | 9,074  | 0.28 | 0.46 | 0.25 | 9,219  |
| Average<br>Daily           | _    | _    | _    | _    | _       | _     | _     | _     | _      | _          | _      | _    | _      | _      | _    | _    | _    | _      |
| 2026                       | 1.99 | 1.82 | 20.3 | 67.6 | 0.10    | 0.36  | 4.14  | 4.50  | 0.36   | 0.88       | 1.23   | _    | 13,408 | 13,408 | 0.32 | 1.08 | 7.76 | 13,747 |
| 2027                       | 0.33 | 0.30 | 1.73 | 9.91 | 0.01    | 0.04  | 0.70  | 0.75  | 0.04   | 0.13       | 0.17   | _    | 1,154  | 1,154  | 0.03 | 0.07 | 0.78 | 1,175  |
| Annual                     | _    | _    | _    | _    | _       | _     | _     | _     | _      | _          | _      | _    | _      | _      | _    | _    | _    | _      |
| 2026                       | 0.36 | 0.33 | 3.71 | 12.3 | 0.02    | 0.07  | 0.76  | 0.82  | 0.06   | 0.16       | 0.23   | _    | 2,220  | 2,220  | 0.05 | 0.18 | 1.29 | 2,276  |
| 2027                       | 0.06 | 0.06 | 0.32 | 1.81 | < 0.005 | 0.01  | 0.13  | 0.14  | 0.01   | 0.02       | 0.03   | _    | 191    | 191    | 0.01 | 0.01 | 0.13 | 195    |

### 2.4. Operations Emissions Compared Against Thresholds

| Un/Mit.                   | TOG  | ROG  | NOx  | СО   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D  | PM2.5T | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R    | CO2e |
|---------------------------|------|------|------|------|---------|-------|-------|-------|--------|---------|--------|------|-------|------|---------|---------|------|------|
| Daily,<br>Summer<br>(Max) | _    | _    | _    |      | _       | _     | _     | _     | _      | _       | _      | _    |       |      | _       |         |      | _    |
| Unmit.                    | 2.80 | 2.74 | 0.05 | 4.02 | < 0.005 | 0.01  | 0.01  | 0.02  | 0.01   | < 0.005 | 0.01   | 0.00 | 34.8  | 34.8 | < 0.005 | < 0.005 | 0.05 | 35.4 |
| Daily,<br>Winter<br>(Max) | _    | _    | _    |      | _       | _     | _     | _     | _      | _       | _      | _    | _     | _    | _       |         |      | _    |

| Unmit.                    | 2.10 | 2.10 | 0.02 | 0.15 | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | 0.00 | 17.7 | 17.7 | < 0.005 | < 0.005 | < 0.005 | 18.3 |
|---------------------------|------|------|------|------|---------|---------|---------|---------|---------|---------|---------|------|------|------|---------|---------|---------|------|
| Average<br>Daily<br>(Max) | _    | _    | _    | _    | _       | _       | _       | _       | _       | _       | _       | _    | _    | _    | _       | _       | _       | _    |
| Unmit.                    | 2.43 | 2.40 | 0.03 | 2.01 | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.00 | 20.7 | 20.7 | < 0.005 | < 0.005 | 0.02    | 21.1 |
| Annual<br>(Max)           | _    | _    | _    | _    | _       | _       | _       | _       | _       | _       | _       | _    | _    | _    | _       | _       | _       | _    |
| Unmit.                    | 0.44 | 0.44 | 0.01 | 0.37 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 3.42 | 3.42 | < 0.005 | < 0.005 | < 0.005 | 3.49 |

## 2.5. Operations Emissions by Sector, Unmitigated

| Sector                    | TOG  | ROG  | NOx  | СО   | SO2     | PM10E   | PM10D | PM10T | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R       | CO2e |
|---------------------------|------|------|------|------|---------|---------|-------|-------|---------|---------|---------|------|-------|------|---------|---------|---------|------|
| Daily,<br>Summer<br>(Max) | _    | -    | _    | _    | _       | _       | _     | _     | _       | _       | _       | _    | _     | _    | _       | _       | _       | _    |
| Mobile                    | 0.04 | 0.04 | 0.02 | 0.12 | < 0.005 | < 0.005 | 0.01  | 0.01  | < 0.005 | < 0.005 | < 0.005 | _    | 18.8  | 18.8 | < 0.005 | < 0.005 | 0.05    | 19.4 |
| Area                      | 2.75 | 2.70 | 0.03 | 3.89 | < 0.005 | 0.01    | _     | 0.01  | 0.01    | _       | 0.01    | _    | 16.0  | 16.0 | < 0.005 | < 0.005 | _       | 16.1 |
| Energy                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | _     | 0.00  | 0.00    | _       | 0.00    | _    | 0.00  | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Water                     | _    | _    | _    | _    | _       | _       | _     | _     | _       | _       | _       | 0.00 | 0.00  | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Waste                     | _    | _    | _    | _    | _       | _       | _     | _     | _       | _       | _       | 0.00 | 0.00  | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Total                     | 2.80 | 2.74 | 0.05 | 4.02 | < 0.005 | 0.01    | 0.01  | 0.02  | 0.01    | < 0.005 | 0.01    | 0.00 | 34.8  | 34.8 | < 0.005 | < 0.005 | 0.05    | 35.4 |
| Daily,<br>Winter<br>(Max) | _    | -    | _    | _    | _       | _       | _     | _     | _       | _       | _       | _    | _     | _    | _       | _       | _       | _    |
| Mobile                    | 0.04 | 0.04 | 0.02 | 0.15 | < 0.005 | < 0.005 | 0.01  | 0.01  | < 0.005 | < 0.005 | < 0.005 | _    | 17.7  | 17.7 | < 0.005 | < 0.005 | < 0.005 | 18.3 |
| Area                      | 2.06 | 2.06 | _    | _    | _       | _       | _     | _     | _       | _       | _       | _    | _     | _    | _       | _       | _       | _    |
| Energy                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | _     | 0.00  | 0.00    | _       | 0.00    | _    | 0.00  | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Water                     | _    | _    | _    | _    | _       | _       | _     | _     | _       | _       | _       | 0.00 | 0.00  | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Waste                     | _    | _    | _    | _    | _       | _       | _     | _     | _       | _       | _       | 0.00 | 0.00  | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Total                     | 2.10 | 2.10 | 0.02 | 0.15 | < 0.005 | < 0.005 | 0.01  | 0.01  | < 0.005 | < 0.005 | < 0.005 | 0.00 | 17.7  | 17.7 | < 0.005 | < 0.005 | < 0.005 | 18.3 |

| Average<br>Daily | _    | _    | _       | _    | _        | _       | _       | _       | _       | _       | _       | _    | _    | _    | _       | _       | _       | _    |
|------------------|------|------|---------|------|----------|---------|---------|---------|---------|---------|---------|------|------|------|---------|---------|---------|------|
| Mobile           | 0.03 | 0.03 | 0.01    | 0.09 | < 0.005  | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | _    | 12.8 | 12.8 | < 0.005 | < 0.005 | 0.02    | 13.2 |
| Area             | 2.40 | 2.37 | 0.02    | 1.92 | < 0.005  | < 0.005 | _       | < 0.005 | < 0.005 | _       | < 0.005 | _    | 7.90 | 7.90 | < 0.005 | < 0.005 | _       | 7.92 |
| Energy           | 0.00 | 0.00 | 0.00    | 0.00 | 0.00     | 0.00    | _       | 0.00    | 0.00    | _       | 0.00    | _    | 0.00 | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Water            | _    | _    | _       | _    | _        | _       | _       | _       | _       | _       | _       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Waste            | _    | _    | _       | _    | _        | _       | _       | _       | _       | _       | _       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Total            | 2.43 | 2.40 | 0.03    | 2.01 | < 0.005  | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.00 | 20.7 | 20.7 | < 0.005 | < 0.005 | 0.02    | 21.1 |
| Annual           | _    | _    | _       | _    | _        | _       | _       | _       | _       | _       | _       | _    | _    | _    | _       | _       | _       | _    |
| Mobile           | 0.01 | 0.01 | < 0.005 | 0.02 | < 0.005  | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _    | 2.12 | 2.12 | < 0.005 | < 0.005 | < 0.005 | 2.18 |
| Area             | 0.44 | 0.43 | < 0.005 | 0.35 | < 0.005  | < 0.005 | _       | < 0.005 | < 0.005 | _       | < 0.005 | _    | 1.31 | 1.31 | < 0.005 | < 0.005 | _       | 1.31 |
| Energy           | 0.00 | 0.00 | 0.00    | 0.00 | 0.00     | 0.00    | _       | 0.00    | 0.00    | _       | 0.00    | _    | 0.00 | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Water            | _    | _    | _       | _    | _        | _       | _       | _       | _       | _       | _       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Waste            | _    | _    | _       | _    | <u> </u> | _       | _       | _       | _       | _       | _       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Total            | 0.44 | 0.44 | 0.01    | 0.37 | < 0.005  | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 3.42 | 3.42 | < 0.005 | < 0.005 | < 0.005 | 3.49 |

## 2.6. Operations Emissions by Sector, Mitigated

| Sector                    | TOG  | ROG  | NOx  | со   | SO2     | PM10E   | PM10D | PM10T | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R    | CO2e |
|---------------------------|------|------|------|------|---------|---------|-------|-------|---------|---------|---------|------|-------|------|---------|---------|------|------|
| Daily,<br>Summer<br>(Max) | _    | _    | _    | _    | _       | _       | _     | _     | _       | _       | _       | _    | _     | _    | _       | _       | _    | _    |
| Mobile                    | 0.04 | 0.04 | 0.02 | 0.12 | < 0.005 | < 0.005 | 0.01  | 0.01  | < 0.005 | < 0.005 | < 0.005 | _    | 18.8  | 18.8 | < 0.005 | < 0.005 | 0.05 | 19.4 |
| Area                      | 2.75 | 2.70 | 0.03 | 3.89 | < 0.005 | 0.01    | _     | 0.01  | 0.01    | _       | 0.01    | _    | 16.0  | 16.0 | < 0.005 | < 0.005 | _    | 16.1 |
| Energy                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | _     | 0.00  | 0.00    | _       | 0.00    | _    | 0.00  | 0.00 | 0.00    | 0.00    | _    | 0.00 |
| Water                     | _    | _    | _    | _    | _       | _       | _     | _     | _       | _       | _       | 0.00 | 0.00  | 0.00 | 0.00    | 0.00    | _    | 0.00 |
| Waste                     | _    | _    | _    | _    | _       | _       | _     | _     | _       | _       | _       | 0.00 | 0.00  | 0.00 | 0.00    | 0.00    | _    | 0.00 |
| Total                     | 2.80 | 2.74 | 0.05 | 4.02 | < 0.005 | 0.01    | 0.01  | 0.02  | 0.01    | < 0.005 | 0.01    | 0.00 | 34.8  | 34.8 | < 0.005 | < 0.005 | 0.05 | 35.4 |

| Daily,<br>Winter<br>(Max) | _    | _    | _       | _    | _        | _       | _       | _       | _       | _       | _       | _    | _    | -    | _       | _       | _       | _    |
|---------------------------|------|------|---------|------|----------|---------|---------|---------|---------|---------|---------|------|------|------|---------|---------|---------|------|
| Mobile                    | 0.04 | 0.04 | 0.02    | 0.15 | < 0.005  | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | _    | 17.7 | 17.7 | < 0.005 | < 0.005 | < 0.005 | 18.3 |
| Area                      | 2.06 | 2.06 | _       | _    | _        | _       | _       | _       | _       | _       | _       | _    | _    | _    | _       | _       | _       | _    |
| Energy                    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00     | 0.00    | _       | 0.00    | 0.00    | _       | 0.00    | _    | 0.00 | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Water                     | _    | _    | _       | _    | _        | _       | _       | _       | _       | _       | _       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Waste                     | _    | _    | _       | _    | _        | _       | _       | _       | _       | _       | _       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Total                     | 2.10 | 2.10 | 0.02    | 0.15 | < 0.005  | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | 0.00 | 17.7 | 17.7 | < 0.005 | < 0.005 | < 0.005 | 18.3 |
| Average<br>Daily          | -    | _    | _       | _    | -        | _       | _       | _       | _       | _       | _       | _    | _    | _    | _       | -       | _       | -    |
| Mobile                    | 0.03 | 0.03 | 0.01    | 0.09 | < 0.005  | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | _    | 12.8 | 12.8 | < 0.005 | < 0.005 | 0.02    | 13.2 |
| Area                      | 2.40 | 2.37 | 0.02    | 1.92 | < 0.005  | < 0.005 | _       | < 0.005 | < 0.005 | _       | < 0.005 | _    | 7.90 | 7.90 | < 0.005 | < 0.005 | _       | 7.92 |
| Energy                    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00     | 0.00    | _       | 0.00    | 0.00    | _       | 0.00    | _    | 0.00 | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Water                     | _    | _    | _       | _    | _        | _       | _       | _       | _       | _       | _       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Waste                     | _    | _    | _       | _    | _        | _       | _       | _       | _       | _       | _       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Total                     | 2.43 | 2.40 | 0.03    | 2.01 | < 0.005  | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.00 | 20.7 | 20.7 | < 0.005 | < 0.005 | 0.02    | 21.1 |
| Annual                    | _    | _    | _       | _    | _        | _       | _       | _       | _       | _       | _       | _    | _    | _    | _       | _       | _       | _    |
| Mobile                    | 0.01 | 0.01 | < 0.005 | 0.02 | < 0.005  | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _    | 2.12 | 2.12 | < 0.005 | < 0.005 | < 0.005 | 2.18 |
| Area                      | 0.44 | 0.43 | < 0.005 | 0.35 | < 0.005  | < 0.005 | _       | < 0.005 | < 0.005 | _       | < 0.005 | _    | 1.31 | 1.31 | < 0.005 | < 0.005 | _       | 1.31 |
| Energy                    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00     | 0.00    | _       | 0.00    | 0.00    | _       | 0.00    | _    | 0.00 | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Water                     | _    | _    | _       | _    | _        | _       | _       | _       | _       | _       | _       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Waste                     | _    | _    | _       | _    | <u> </u> | _       | _       | _       | _       | _       | _       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | _       | 0.00 |
| Total                     | 0.44 | 0.44 | 0.01    | 0.37 | < 0.005  | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 3.42 | 3.42 | < 0.005 | < 0.005 | < 0.005 | 3.49 |

## 3. Construction Emissions Details

### 3.1. Gen-tie Site Prep (Orchard Removal) (2026) - Unmitigated

| Location                      | TOG     | ROG     | NOx     | СО      | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R       | CO2e  |
|-------------------------------|---------|---------|---------|---------|---------|---------|-------|---------|---------|---------|---------|------|-------|-------|---------|---------|---------|-------|
| Onsite                        | _       | _       | _       | _       | _       | _       | _     | _       | _       | _       | _       | _    | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max)     | _       | _       | _       | -       | -       | _       | _     | _       | _       | _       | _       | _    | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 2.49    | 2.09    | 19.2    | 17.3    | 0.03    | 0.86    | _     | 0.86    | 0.79    | _       | 0.79    | _    | 3,220 | 3,220 | 0.13    | 0.03    | _       | 3,231 |
| Onsite<br>truck               | < 0.005 | < 0.005 | 0.04    | 0.03    | < 0.005 | < 0.005 | 3.68  | 3.68    | < 0.005 | 0.37    | 0.37    | _    | 12.1  | 12.1  | < 0.005 | < 0.005 | 0.02    | 12.7  |
| Daily,<br>Winter<br>(Max)     | _       | _       | -       | -       | -       | _       | _     | _       | _       | _       | _       | _    | _     | _     | _       | _       | _       | _     |
| Average<br>Daily              | _       | _       | _       | _       | _       | _       | _     | _       | _       | _       | _       | _    | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.08    | 0.06    | 0.58    | 0.52    | < 0.005 | 0.03    | _     | 0.03    | 0.02    | _       | 0.02    | _    | 97.0  | 97.0  | < 0.005 | < 0.005 | _       | 97.4  |
| Onsite<br>truck               | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.10  | 0.10    | < 0.005 | 0.01    | 0.01    | _    | 0.37  | 0.37  | < 0.005 | < 0.005 | < 0.005 | 0.38  |
| Annual                        | _       | _       | _       | _       | _       | _       | _     | _       | _       | _       | _       | _    | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.01    | 0.01    | 0.11    | 0.09    | < 0.005 | < 0.005 | _     | < 0.005 | < 0.005 | _       | < 0.005 | _    | 16.1  | 16.1  | < 0.005 | < 0.005 | _       | 16.1  |
| Onsite<br>truck               | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02  | 0.02    | < 0.005 | < 0.005 | < 0.005 | _    | 0.06  | 0.06  | < 0.005 | < 0.005 | < 0.005 | 0.06  |
| Offsite                       | _       | _       | _       | _       | _       | _       | _     | _       | _       | _       | _       | _    | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max)     | _       | _       | _       | _       | _       | _       | _     | _       | _       | _       | _       | _    | _     | _     | _       | _       | _       | _     |
| Worker                        | 0.04    | 0.04    | 0.02    | 0.41    | 0.00    | 0.00    | 0.09  | 0.09    | 0.00    | 0.02    | 0.02    | _    | 93.3  | 93.3  | < 0.005 | < 0.005 | 0.33    | 94.6  |
| Vendor                        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | _    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |

| Hauling                   | 0.06    | 0.03    | 2.24    | 0.37    | 0.01    | 0.04    | 0.60    | 0.65    | 0.04    | 0.16    | 0.21    | _ | 2,152 | 2,152 | 0.02    | 0.33    | 4.39    | 2,256 |
|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Daily,<br>Winter<br>(Max) | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Average<br>Daily          | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                    | < 0.005 | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | _ | 2.59  | 2.59  | < 0.005 | < 0.005 | < 0.005 | 2.63  |
| Vendor                    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling                   | < 0.005 | < 0.005 | 0.07    | 0.01    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | 0.01    | _ | 64.9  | 64.9  | < 0.005 | 0.01    | 0.06    | 67.9  |
| Annual                    | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | _ | 0.43  | 0.43  | < 0.005 | < 0.005 | < 0.005 | 0.44  |
| Vendor                    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling                   | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 10.7  | 10.7  | < 0.005 | < 0.005 | 0.01    | 11.2  |

## 3.2. Gen-tie Site Prep (Orchard Removal) (2026) - Mitigated

|                               |         | · ·     |      |      | <u> </u> |         |       | <del></del> |         |        |        |      |       |       |         |         |      |       |
|-------------------------------|---------|---------|------|------|----------|---------|-------|-------------|---------|--------|--------|------|-------|-------|---------|---------|------|-------|
| Location                      | TOG     | ROG     | NOx  | СО   | SO2      | PM10E   | PM10D | PM10T       | PM2.5E  | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R    | CO2e  |
| Onsite                        | _       | _       | _    | _    | _        | _       | _     | _           | _       | _      | _      | _    | _     | _     | _       | _       | _    | _     |
| Daily,<br>Summer<br>(Max)     | _       | _       | _    | _    | _        | _       | _     | _           | _       | _      | _      | _    | _     | _     | _       | _       | _    | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.31    | 0.31    | 2.17 | 16.7 | 0.03     | 0.06    | _     | 0.06        | 0.06    | _      | 0.06   | _    | 3,220 | 3,220 | 0.13    | 0.03    | _    | 3,231 |
| Onsite truck                  | < 0.005 | < 0.005 | 0.04 | 0.03 | < 0.005  | < 0.005 | 0.15  | 0.15        | < 0.005 | 0.02   | 0.02   | _    | 12.1  | 12.1  | < 0.005 | < 0.005 | 0.02 | 12.7  |
| Daily,<br>Winter<br>(Max)     | _       | _       | _    | _    | _        | _       | _     | _           | _       | _      | _      | _    | _     | _     | _       | _       | _    | _     |
| Average<br>Daily              | _       | _       | _    | _    | _        | _       | _     | _           | _       | _      | _      | _    | _     | _     | _       | _       | _    | _     |

| Off-Roa<br>Equipmer           |         | 0.01    | 0.07    | 0.50    | < 0.005 | < 0.005 | _       | < 0.005 | < 0.005 | _       | < 0.005 | _ | 97.0  | 97.0  | < 0.005 | < 0.005 | _       | 97.4  |
|-------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Onsite<br>truck               | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 0.37  | 0.37  | < 0.005 | < 0.005 | < 0.005 | 0.38  |
| Annual                        | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | < 0.005 | < 0.005 | 0.01    | 0.09    | < 0.005 | < 0.005 | _       | < 0.005 | < 0.005 | _       | < 0.005 | _ | 16.1  | 16.1  | < 0.005 | < 0.005 | _       | 16.1  |
| Onsite<br>truck               | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 0.06  | 0.06  | < 0.005 | < 0.005 | < 0.005 | 0.06  |
| Offsite                       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max)     | _       | _       | _       | _       | -       | _       | _       | _       | _       | _       | _       | _ | _     | -     | _       | _       | _       | _     |
| Worker                        | 0.04    | 0.04    | 0.02    | 0.41    | 0.00    | 0.00    | 0.09    | 0.09    | 0.00    | 0.02    | 0.02    | _ | 93.3  | 93.3  | < 0.005 | < 0.005 | 0.33    | 94.6  |
| Vendor                        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling                       | 0.06    | 0.03    | 2.24    | 0.37    | 0.01    | 0.04    | 0.60    | 0.65    | 0.04    | 0.16    | 0.21    | _ | 2,152 | 2,152 | 0.02    | 0.33    | 4.39    | 2,256 |
| Daily,<br>Winter<br>(Max)     | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Average<br>Daily              | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                        | < 0.005 | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | _ | 2.59  | 2.59  | < 0.005 | < 0.005 | < 0.005 | 2.63  |
| Vendor                        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | - | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling                       | < 0.005 | < 0.005 | 0.07    | 0.01    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | 0.01    | _ | 64.9  | 64.9  | < 0.005 | 0.01    | 0.06    | 67.9  |
| Annual                        | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                        | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | _ | 0.43  | 0.43  | < 0.005 | < 0.005 | < 0.005 | 0.44  |
| Vendor                        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling                       | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 10.7  | 10.7  | < 0.005 | < 0.005 | 0.01    | 11.2  |

## 3.3. Site Preparation (2026) - Unmitigated

| Cinteria                      | Tollula | 1113 (10/0 | lay loi u | ally, ton |         | illiuai) a |       |       |         |        |        | iliuaij |       |       |         |         |         |       |
|-------------------------------|---------|------------|-----------|-----------|---------|------------|-------|-------|---------|--------|--------|---------|-------|-------|---------|---------|---------|-------|
| Location                      | TOG     | ROG        | NOx       | СО        | SO2     | PM10E      | PM10D | PM10T | PM2.5E  | PM2.5D | PM2.5T | BCO2    | NBCO2 | CO2T  | CH4     | N2O     | R       | CO2e  |
| Onsite                        | _       | _          | _         | _         | _       | _          | _     | _     | _       | _      | _      | _       | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max)     | _       | _          | _         | _         | _       | _          | _     | _     | _       | _      | _      | _       | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 1.18    | 0.99       | 9.28      | 8.76      | 0.02    | 0.40       | _     | 0.40  | 0.37    | _      | 0.37   | _       | 1,646 | 1,646 | 0.07    | 0.01    | _       | 1,652 |
| Onsite truck                  | 0.01    | 0.01       | 0.16      | 0.11      | < 0.005 | < 0.005    | 14.7  | 14.7  | < 0.005 | 1.47   | 1.47   | _       | 48.4  | 48.4  | < 0.005 | 0.01    | 0.07    | 50.8  |
| Daily,<br>Winter<br>(Max)     | _       | -          | -         | -         | -       | _          | -     | _     | _       | _      | _      | _       | _     | _     | _       | _       | _       | -     |
| Off-Roa<br>d<br>Equipm<br>ent | 1.18    | 0.99       | 9.28      | 8.76      | 0.02    | 0.40       | _     | 0.40  | 0.37    | _      | 0.37   | _       | 1,646 | 1,646 | 0.07    | 0.01    | _       | 1,652 |
| Onsite truck                  | 0.01    | 0.01       | 0.17      | 0.11      | < 0.005 | < 0.005    | 14.7  | 14.7  | < 0.005 | 1.47   | 1.47   | _       | 48.9  | 48.9  | < 0.005 | 0.01    | < 0.005 | 51.2  |
| Average<br>Daily              | _       | _          | _         | _         | _       | _          | _     | _     | _       | _      | _      | _       | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.14    | 0.12       | 1.12      | 1.06      | < 0.005 | 0.05       | _     | 0.05  | 0.04    | _      | 0.04   | _       | 198   | 198   | 0.01    | < 0.005 | _       | 199   |
| Onsite truck                  | < 0.005 | < 0.005    | 0.02      | 0.01      | < 0.005 | < 0.005    | 1.61  | 1.61  | < 0.005 | 0.16   | 0.16   | -       | 5.86  | 5.86  | < 0.005 | < 0.005 | < 0.005 | 6.14  |
| Annual                        | _       | _          | _         | _         | _       | _          | _     | _     | _       | _      | _      | _       | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.03    | 0.02       | 0.20      | 0.19      | < 0.005 | 0.01       | _     | 0.01  | 0.01    | _      | 0.01   | _       | 32.9  | 32.9  | < 0.005 | < 0.005 | _       | 33.0  |
| Onsite truck                  | < 0.005 | < 0.005    | < 0.005   | < 0.005   | < 0.005 | < 0.005    | 0.29  | 0.29  | < 0.005 | 0.03   | 0.03   | _       | 0.97  | 0.97  | < 0.005 | < 0.005 | < 0.005 | 1.02  |

| Offsite                   | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Daily,<br>Summer<br>(Max) | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                    | 0.06    | 0.06    | 0.04    | 0.66    | 0.00    | 0.00    | 0.14    | 0.14    | 0.00    | 0.03    | 0.03    | _ | 149   | 149   | < 0.005 | 0.01    | 0.53    | 151   |
| Vendor                    | 0.01    | 0.01    | 0.23    | 0.12    | < 0.005 | < 0.005 | 0.05    | 0.05    | < 0.005 | 0.01    | 0.02    | _ | 189   | 189   | < 0.005 | 0.02    | 0.46    | 196   |
| Hauling                   | 0.05    | 0.03    | 1.57    | 0.38    | 0.01    | 0.03    | 0.37    | 0.40    | 0.03    | 0.10    | 0.13    | _ | 1,348 | 1,348 | 0.01    | 0.21    | 2.70    | 1,413 |
| Daily,<br>Winter<br>(Max) | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                    | 0.06    | 0.05    | 0.05    | 0.55    | 0.00    | 0.00    | 0.14    | 0.14    | 0.00    | 0.03    | 0.03    | _ | 135   | 135   | < 0.005 | 0.01    | 0.01    | 137   |
| Vendor                    | 0.01    | 0.01    | 0.25    | 0.12    | < 0.005 | < 0.005 | 0.05    | 0.05    | < 0.005 | 0.01    | 0.02    | _ | 189   | 189   | < 0.005 | 0.02    | 0.01    | 196   |
| Hauling                   | 0.05    | 0.02    | 1.70    | 0.39    | 0.01    | 0.03    | 0.37    | 0.40    | 0.03    | 0.10    | 0.13    | _ | 1,349 | 1,349 | 0.01    | 0.21    | 0.07    | 1,412 |
| Average<br>Daily          | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                    | 0.01    | 0.01    | 0.01    | 0.06    | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | < 0.005 | < 0.005 | _ | 16.6  | 16.6  | < 0.005 | < 0.005 | 0.03    | 16.8  |
| Vendor                    | < 0.005 | < 0.005 | 0.03    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 22.7  | 22.7  | < 0.005 | < 0.005 | 0.02    | 23.7  |
| Hauling                   | 0.01    | < 0.005 | 0.20    | 0.05    | < 0.005 | < 0.005 | 0.04    | 0.05    | < 0.005 | 0.01    | 0.02    | _ | 163   | 163   | < 0.005 | 0.03    | 0.14    | 170   |
| Annual                    | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                    | < 0.005 | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | _ | 2.75  | 2.75  | < 0.005 | < 0.005 | < 0.005 | 2.79  |
| Vendor                    | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 3.77  | 3.77  | < 0.005 | < 0.005 | < 0.005 | 3.92  |
| Hauling                   | < 0.005 | < 0.005 | 0.04    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 26.9  | 26.9  | < 0.005 | < 0.005 | 0.02    | 28.2  |

## 3.4. Site Preparation (2026) - Mitigated

|              |     |     |     |    | ,   |       |       |       | ,      |        |        |      |       |      |     |     |   |      |
|--------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Location     | TOG | ROG | NOx | со | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
| Onsite       | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Daily,       | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Summer (Max) |     |     |     |    |     |       |       |       |        |        |        |      |       |      |     |     |   |      |

| Off-Roa<br>d                  | 0.16    | 0.16    | 1.38    | 8.60    | 0.02    | 0.03    | _    | 0.03    | 0.03    | _       | 0.03    | _ | 1,646 | 1,646 | 0.07    | 0.01    | _       | 1,652 |
|-------------------------------|---------|---------|---------|---------|---------|---------|------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Onsite<br>truck               | 0.01    | 0.01    | 0.16    | 0.11    | < 0.005 | < 0.005 | 0.60 | 0.60    | < 0.005 | 0.06    | 0.06    | _ | 48.4  | 48.4  | < 0.005 | 0.01    | 0.07    | 50.8  |
| Daily,<br>Winter<br>(Max)     | _       | _       | _       | -       | -       | _       | _    | _       | _       | _       | -       | - | _     | -     | _       | _       | _       | -     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.16    | 0.16    | 1.38    | 8.60    | 0.02    | 0.03    | _    | 0.03    | 0.03    | _       | 0.03    | _ | 1,646 | 1,646 | 0.07    | 0.01    | _       | 1,652 |
| Onsite<br>truck               | 0.01    | 0.01    | 0.17    | 0.11    | < 0.005 | < 0.005 | 0.60 | 0.60    | < 0.005 | 0.06    | 0.06    | _ | 48.9  | 48.9  | < 0.005 | 0.01    | < 0.005 | 51.2  |
| Average<br>Daily              | _       | _       | _       | _       | _       | _       | _    | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.02    | 0.02    | 0.17    | 1.04    | < 0.005 | < 0.005 | _    | < 0.005 | < 0.005 | _       | < 0.005 | _ | 198   | 198   | 0.01    | < 0.005 | _       | 199   |
| Onsite<br>truck               | < 0.005 | < 0.005 | 0.02    | 0.01    | < 0.005 | < 0.005 | 0.07 | 0.07    | < 0.005 | 0.01    | 0.01    | _ | 5.86  | 5.86  | < 0.005 | < 0.005 | < 0.005 | 6.14  |
| Annual                        | _       | _       | _       | _       | _       | _       | _    | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | < 0.005 | < 0.005 | 0.03    | 0.19    | < 0.005 | < 0.005 | _    | < 0.005 | < 0.005 | _       | < 0.005 | _ | 32.9  | 32.9  | < 0.005 | < 0.005 | _       | 33.0  |
| Onsite<br>truck               | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 0.97  | 0.97  | < 0.005 | < 0.005 | < 0.005 | 1.02  |
| Offsite                       | _       | _       | _       | _       | _       | _       | _    | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max)     | _       | _       | _       | _       | _       | _       | _    | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                        | 0.06    | 0.06    | 0.04    | 0.66    | 0.00    | 0.00    | 0.14 | 0.14    | 0.00    | 0.03    | 0.03    | _ | 149   | 149   | < 0.005 | 0.01    | 0.53    | 151   |
| Vendor                        | 0.01    | 0.01    | 0.23    | 0.12    | < 0.005 | < 0.005 | 0.05 | 0.05    | < 0.005 | 0.01    | 0.02    | _ | 189   | 189   | < 0.005 | 0.02    | 0.46    | 196   |
| Hauling                       | 0.05    | 0.03    | 1.57    | 0.38    | 0.01    | 0.03    | 0.37 | 0.40    | 0.03    | 0.10    | 0.13    | _ | 1,348 | 1,348 | 0.01    | 0.21    | 2.70    | 1,413 |

| Daily,<br>Winter<br>(Max) | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Worker                    | 0.06    | 0.05    | 0.05    | 0.55    | 0.00    | 0.00    | 0.14    | 0.14    | 0.00    | 0.03    | 0.03    | _ | 135   | 135   | < 0.005 | 0.01    | 0.01    | 137   |
| Vendor                    | 0.01    | 0.01    | 0.25    | 0.12    | < 0.005 | < 0.005 | 0.05    | 0.05    | < 0.005 | 0.01    | 0.02    | _ | 189   | 189   | < 0.005 | 0.02    | 0.01    | 196   |
| Hauling                   | 0.05    | 0.02    | 1.70    | 0.39    | 0.01    | 0.03    | 0.37    | 0.40    | 0.03    | 0.10    | 0.13    | _ | 1,349 | 1,349 | 0.01    | 0.21    | 0.07    | 1,412 |
| Average<br>Daily          | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                    | 0.01    | 0.01    | 0.01    | 0.06    | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | < 0.005 | < 0.005 | _ | 16.6  | 16.6  | < 0.005 | < 0.005 | 0.03    | 16.8  |
| Vendor                    | < 0.005 | < 0.005 | 0.03    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 22.7  | 22.7  | < 0.005 | < 0.005 | 0.02    | 23.7  |
| Hauling                   | 0.01    | < 0.005 | 0.20    | 0.05    | < 0.005 | < 0.005 | 0.04    | 0.05    | < 0.005 | 0.01    | 0.02    | _ | 163   | 163   | < 0.005 | 0.03    | 0.14    | 170   |
| Annual                    | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                    | < 0.005 | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | _ | 2.75  | 2.75  | < 0.005 | < 0.005 | < 0.005 | 2.79  |
| Vendor                    | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 3.77  | 3.77  | < 0.005 | < 0.005 | < 0.005 | 3.92  |
| Hauling                   | < 0.005 | < 0.005 | 0.04    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 26.9  | 26.9  | < 0.005 | < 0.005 | 0.02    | 28.2  |

## 3.5. Grading (2026) - Unmitigated

| Location                            | TOG   | ROG  | NOx  | СО   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|-------------------------------------|-------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Onsite                              | _     | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _     | _    | _    | _ | _     |
| Daily,<br>Summer<br>(Max)           | _     | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _     | _    | _    | _ | _     |
| Off-Roa<br>d<br>Equipm<br>ent       | 1.43  | 1.20 | 8.76 | 12.9 | 0.03 | 0.38  | _     | 0.38  | 0.35   | _      | 0.35   | _    | 2,884 | 2,884 | 0.12 | 0.02 | _ | 2,894 |
| Dust<br>From<br>Material<br>Movemer | <br>t | _    | _    | _    | _    | _     | 0.57  | 0.57  | _      | 0.06   | 0.06   | _    | _     | _     | _    | _    | _ | _     |

| Onsite<br>truck                     | 0.05    | 0.04    | 0.79 | 0.53 | < 0.005 | < 0.005 | 73.6 | 73.6 | < 0.005 | 7.35    | 7.35    | _ | 242    | 242    | 0.01    | 0.04    | 0.34    | 254    |
|-------------------------------------|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|--------|--------|---------|---------|---------|--------|
| Daily,<br>Winter<br>(Max)           | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _      | _      | _       | _       | _       | _      |
| Average<br>Daily                    | _       | _       | _    | _    | -       | -       | -    | _    | _       | _       | -       | _ | _      | _      | _       | _       | -       | _      |
| Off-Roa<br>d<br>Equipm<br>ent       | 0.25    | 0.21    | 1.56 | 2.30 | < 0.005 | 0.07    | _    | 0.07 | 0.06    | _       | 0.06    | _ | 514    | 514    | 0.02    | < 0.005 | _       | 515    |
| Dust<br>From<br>Material<br>Movemer |         | _       | _    | _    | _       | _       | 0.10 | 0.10 | _       | 0.01    | 0.01    | _ | _      | _      | _       | _       | _       | _      |
| Onsite<br>truck                     | 0.01    | 0.01    | 0.15 | 0.10 | < 0.005 | < 0.005 | 11.9 | 11.9 | < 0.005 | 1.18    | 1.18    | _ | 43.3   | 43.3   | < 0.005 | 0.01    | 0.03    | 45.4   |
| Annual                              | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _      | _      | _       | _       | _       | _      |
| Off-Roa<br>d<br>Equipm<br>ent       | 0.05    | 0.04    | 0.28 | 0.42 | < 0.005 | 0.01    | _    | 0.01 | 0.01    | _       | 0.01    | _ | 85.0   | 85.0   | < 0.005 | < 0.005 | _       | 85.3   |
| Dust<br>From<br>Material<br>Movemer | —       | _       | _    | _    | _       | _       | 0.02 | 0.02 | _       | < 0.005 | < 0.005 | _ | _      | _      | _       | _       | _       | _      |
| Onsite<br>truck                     | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 2.16 | 2.16 | < 0.005 | 0.22    | 0.22    | _ | 7.17   | 7.17   | < 0.005 | < 0.005 | < 0.005 | 7.51   |
| Offsite                             | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _      | _      | _       | _       | _       | _      |
| Daily,<br>Summer<br>(Max)           | _       | _       | _    | _    | -       | _       | _    | _    | _       | _       | _       | _ | _      | _      | -       | _       | _       | _      |
| Worker                              | 0.30    | 0.30    | 0.18 | 3.31 | 0.00    | 0.00    | 0.70 | 0.70 | 0.00    | 0.16    | 0.16    | _ | 746    | 746    | 0.01    | 0.03    | 2.64    | 757    |
| Vendor                              | 0.03    | 0.02    | 0.62 | 0.24 | < 0.005 | 0.01    | 0.11 | 0.12 | 0.01    | 0.03    | 0.04    | _ | 413    | 413    | 0.01    | 0.06    | 0.79    | 433    |
| Hauling                             | 0.39    | 0.17    | 15.0 | 2.46 | 0.10    | 0.29    | 4.03 | 4.32 | 0.29    | 1.10    | 1.39    | _ | 14,401 | 14,401 | 0.11    | 2.23    | 29.3    | 15,098 |

| Daily,<br>Winter<br>(Max) | _       | _       | _    | _    | -       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _    | _     |
|---------------------------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Average<br>Daily          | _       | _       | _    | _    | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _    | _     |
| Worker                    | 0.05    | 0.05    | 0.04 | 0.48 | 0.00    | 0.00    | 0.12    | 0.12    | 0.00    | 0.03    | 0.03    | _ | 122   | 122   | < 0.005 | 0.01    | 0.20 | 124   |
| Vendor                    | < 0.005 | < 0.005 | 0.12 | 0.04 | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | 0.01    | 0.01    | _ | 73.6  | 73.6  | < 0.005 | 0.01    | 0.06 | 77.1  |
| Hauling                   | 0.07    | 0.03    | 2.83 | 0.44 | 0.02    | 0.05    | 0.71    | 0.76    | 0.05    | 0.19    | 0.24    | _ | 2,565 | 2,565 | 0.02    | 0.40    | 2.25 | 2,686 |
| Annual                    | _       | _       | _    | _    | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _    | _     |
| Worker                    | 0.01    | 0.01    | 0.01 | 0.09 | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | 0.01    | 0.01    | _ | 20.3  | 20.3  | < 0.005 | < 0.005 | 0.03 | 20.6  |
| Vendor                    | < 0.005 | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 12.2  | 12.2  | < 0.005 | < 0.005 | 0.01 | 12.8  |
| Hauling                   | 0.01    | 0.01    | 0.52 | 0.08 | < 0.005 | 0.01    | 0.13    | 0.14    | 0.01    | 0.04    | 0.04    | _ | 425   | 425   | < 0.005 | 0.07    | 0.37 | 445   |

### 3.6. Grading (2026) - Mitigated

| Location                            |        | ROG  | NOx  | со   |         | PM10E   | PM10D | PM10T |         | PM2.5D |      | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|-------------------------------------|--------|------|------|------|---------|---------|-------|-------|---------|--------|------|------|-------|-------|------|------|------|-------|
| Onsite                              | _      | _    | _    | _    | _       | _       | _     | _     | _       | _      | _    | _    | _     | _     | _    | _    | _    | _     |
| Daily,<br>Summer<br>(Max)           | _      | _    | _    | _    | _       | _       | _     | _     | _       | _      | _    | _    | _     | _     | _    | _    | _    | _     |
| Off-Roa<br>d<br>Equipm<br>ent       | 0.32   | 0.32 | 2.90 | 17.4 | 0.03    | 0.06    | _     | 0.06  | 0.06    | _      | 0.06 | _    | 2,884 | 2,884 | 0.12 | 0.02 | _    | 2,894 |
| Dust<br>From<br>Material<br>Movemer | <br>nt | _    | _    | _    | _       | _       | 0.22  | 0.22  | _       | 0.02   | 0.02 | _    | _     | _     | _    | _    | _    | _     |
| Onsite truck                        | 0.05   | 0.04 | 0.79 | 0.53 | < 0.005 | < 0.005 | 2.98  | 2.98  | < 0.005 | 0.30   | 0.30 | _    | 242   | 242   | 0.01 | 0.04 | 0.34 | 254   |
| Daily,<br>Winter<br>(Max)           | _      | _    | _    | _    | _       | _       | _     | _     | _       | _      | _    | _    | _     | _     | _    | _    | _    | _     |

| Average<br>Daily                    | _       | _       | _    | -    | _       | _       | _    | _       | _       | _       | _       | _ | _      | _      | _       | _       | _       | _      |
|-------------------------------------|---------|---------|------|------|---------|---------|------|---------|---------|---------|---------|---|--------|--------|---------|---------|---------|--------|
| Off-Roa<br>d<br>Equipm<br>ent       | 0.06    | 0.06    | 0.52 | 3.09 | < 0.005 | 0.01    | _    | 0.01    | 0.01    | _       | 0.01    | _ | 514    | 514    | 0.02    | < 0.005 | _       | 515    |
| Dust<br>From<br>Material<br>Movemer | —       | _       | _    | _    | _       | _       | 0.04 | 0.04    | _       | < 0.005 | < 0.005 | _ | _      | _      | _       | _       | _       | _      |
| Onsite<br>truck                     | 0.01    | 0.01    | 0.15 | 0.10 | < 0.005 | < 0.005 | 0.48 | 0.48    | < 0.005 | 0.05    | 0.05    | - | 43.3   | 43.3   | < 0.005 | 0.01    | 0.03    | 45.4   |
| Annual                              | _       | _       | _    | _    | _       | _       | _    | _       | _       | _       | _       | _ | _      | _      | _       | _       | _       | _      |
| Off-Roa<br>d<br>Equipm<br>ent       | 0.01    | 0.01    | 0.09 | 0.56 | < 0.005 | < 0.005 | _    | < 0.005 | < 0.005 | _       | < 0.005 | _ | 85.0   | 85.0   | < 0.005 | < 0.005 | _       | 85.3   |
| Dust<br>From<br>Material<br>Movemer | —       | _       | _    | _    | _       | _       | 0.01 | 0.01    | _       | < 0.005 | < 0.005 | _ | _      | _      | _       | _       | _       | _      |
| Onsite<br>truck                     | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.09 | 0.09    | < 0.005 | 0.01    | 0.01    | - | 7.17   | 7.17   | < 0.005 | < 0.005 | < 0.005 | 7.51   |
| Offsite                             | _       | _       | _    | _    | _       | _       | _    | _       | _       | _       | _       | _ | _      | _      | _       | _       | _       | _      |
| Daily,<br>Summer<br>(Max)           | _       | _       | _    | _    | _       | _       | _    | _       | _       | _       | _       | - | _      | _      | _       | -       | -       | -      |
| Worker                              | 0.30    | 0.30    | 0.18 | 3.31 | 0.00    | 0.00    | 0.70 | 0.70    | 0.00    | 0.16    | 0.16    | _ | 746    | 746    | 0.01    | 0.03    | 2.64    | 757    |
| Vendor                              | 0.03    | 0.02    | 0.62 | 0.24 | < 0.005 | 0.01    | 0.11 | 0.12    | 0.01    | 0.03    | 0.04    | _ | 413    | 413    | 0.01    | 0.06    | 0.79    | 433    |
| Hauling                             | 0.39    | 0.17    | 15.0 | 2.46 | 0.10    | 0.29    | 4.03 | 4.32    | 0.29    | 1.10    | 1.39    | _ | 14,401 | 14,401 | 0.11    | 2.23    | 29.3    | 15,098 |
| Daily,<br>Winter<br>(Max)           | _       | _       | _    | _    | _       | _       | _    | _       | _       | _       | _       | _ | _      | _      | _       | _       | _       | _      |
| Average<br>Daily                    | _       | _       | _    | _    | -       | _       | _    | _       | _       | _       | _       | _ | _      | _      | _       | _       | _       | _      |
| Worker                              | 0.05    | 0.05    | 0.04 | 0.48 | 0.00    | 0.00    | 0.12 | 0.12    | 0.00    | 0.03    | 0.03    | _ | 122    | 122    | < 0.005 | 0.01    | 0.20    | 124    |

| Vendor  | < 0.005 | < 0.005 | 0.12 | 0.04 | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | 0.01    | 0.01    | _ | 73.6  | 73.6  | < 0.005 | 0.01    | 0.06 | 77.1  |
|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Hauling | 0.07    | 0.03    | 2.83 | 0.44 | 0.02    | 0.05    | 0.71    | 0.76    | 0.05    | 0.19    | 0.24    | _ | 2,565 | 2,565 | 0.02    | 0.40    | 2.25 | 2,686 |
| Annual  | _       | _       | _    | _    | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _    | _     |
| Worker  | 0.01    | 0.01    | 0.01 | 0.09 | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | 0.01    | 0.01    | _ | 20.3  | 20.3  | < 0.005 | < 0.005 | 0.03 | 20.6  |
| Vendor  | < 0.005 | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 12.2  | 12.2  | < 0.005 | < 0.005 | 0.01 | 12.8  |
| Hauling | 0.01    | 0.01    | 0.52 | 0.08 | < 0.005 | 0.01    | 0.13    | 0.14    | 0.01    | 0.04    | 0.04    | _ | 425   | 425   | < 0.005 | 0.07    | 0.37 | 445   |

#### 3.7. Battery/Container Installation (2026) - Unmitigated

| Location                      | TOG  | ROG  | NOx  | СО   | SO2     | PM10E   | PM10D | PM10T | PM2.5E  | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4     | N2O  | R       | CO2e  |
|-------------------------------|------|------|------|------|---------|---------|-------|-------|---------|--------|--------|------|-------|-------|---------|------|---------|-------|
| Onsite                        | _    | _    | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _    | _       | _     |
| Daily,<br>Summer<br>(Max)     | _    | _    | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _    | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 5.92 | 4.91 | 47.9 | 54.9 | 0.11    | 1.30    | _     | 1.30  | 1.19    | _      | 1.19   | _    | 9,342 | 9,342 | 0.38    | 0.08 | _       | 9,374 |
| Onsite<br>truck               | 0.01 | 0.01 | 0.20 | 0.13 | < 0.005 | < 0.005 | 18.4  | 18.4  | < 0.005 | 1.84   | 1.84   | _    | 60.5  | 60.5  | < 0.005 | 0.01 | 0.08    | 63.5  |
| Daily,<br>Winter<br>(Max)     | _    | _    | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _    | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 5.92 | 4.91 | 47.9 | 54.9 | 0.11    | 1.30    | _     | 1.30  | 1.19    | _      | 1.19   | _    | 9,342 | 9,342 | 0.38    | 0.08 | _       | 9,374 |
| Onsite<br>truck               | 0.01 | 0.01 | 0.21 | 0.14 | < 0.005 | < 0.005 | 18.4  | 18.4  | < 0.005 | 1.84   | 1.84   | _    | 61.1  | 61.1  | < 0.005 | 0.01 | < 0.005 | 64.0  |
| Average<br>Daily              | _    | _    | _    | _    | _       | _       | _     | _     | _       | _      |        | _    | _     | _     | _       | _    | _       | _     |

| Off-Roa<br>d<br>Equipm<br>ent | 2.46    | 2.05    | 19.9 | 22.9 | 0.04    | 0.54    | _    | 0.54 | 0.50    | _    | 0.50 |          | 3,890 | 3,890 | 0.16     | 0.03    | _       | 3,904 |
|-------------------------------|---------|---------|------|------|---------|---------|------|------|---------|------|------|----------|-------|-------|----------|---------|---------|-------|
| Onsite<br>truck               | 0.01    | < 0.005 | 0.09 | 0.06 | < 0.005 | < 0.005 | 6.93 | 6.93 | < 0.005 | 0.69 | 0.69 | _        | 25.3  | 25.3  | < 0.005  | < 0.005 | 0.02    | 26.5  |
| Annual                        | _       | _       | _    | _    | _       | _       | _    | _    | _       | _    | _    | _        | _     | _     | <u> </u> | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.45    | 0.37    | 3.64 | 4.17 | 0.01    | 0.10    | _    | 0.10 | 0.09    | _    | 0.09 | _        | 644   | 644   | 0.03     | 0.01    | _       | 646   |
| Onsite<br>truck               | < 0.005 | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 1.27 | 1.27 | < 0.005 | 0.13 | 0.13 | _        | 4.19  | 4.19  | < 0.005  | < 0.005 | < 0.005 | 4.39  |
| Offsite                       | _       | _       | _    | _    | _       | _       | _    | _    | _       | _    | _    | _        | _     | _     | _        | _       | _       | _     |
| Daily,<br>Summer<br>(Max)     | _       | _       | _    | _    | _       | _       | _    | _    | _       | _    | _    | -        | _     | _     | _        | _       | _       | _     |
| Worker                        | 0.46    | 0.45    | 0.27 | 4.97 | 0.00    | 0.00    | 1.05 | 1.05 | 0.00    | 0.25 | 0.25 | _        | 1,119 | 1,119 | 0.02     | 0.04    | 3.95    | 1,136 |
| Vendor                        | 0.05    | 0.04    | 0.86 | 0.44 | 0.01    | 0.01    | 0.18 | 0.19 | 0.01    | 0.05 | 0.06 | _        | 707   | 707   | 0.01     | 0.09    | 1.72    | 737   |
| Hauling                       | 0.08    | 0.04    | 2.35 | 0.57 | 0.01    | 0.04    | 0.56 | 0.60 | 0.04    | 0.15 | 0.19 | _        | 2,022 | 2,022 | 0.02     | 0.31    | 4.05    | 2,120 |
| Daily,<br>Winter<br>(Max)     | _       | -       | -    | _    | _       | _       | _    | _    | _       | _    | -    | -        | _     | _     | _        | -       | -       | _     |
| Worker                        | 0.43    | 0.38    | 0.39 | 4.12 | 0.00    | 0.00    | 1.05 | 1.05 | 0.00    | 0.25 | 0.25 | _        | 1,012 | 1,012 | 0.03     | 0.04    | 0.10    | 1,025 |
| Vendor                        | 0.04    | 0.03    | 0.93 | 0.45 | 0.01    | 0.01    | 0.18 | 0.19 | 0.01    | 0.05 | 0.06 | _        | 708   | 708   | 0.01     | 0.09    | 0.04    | 736   |
| Hauling                       | 0.07    | 0.04    | 2.55 | 0.58 | 0.01    | 0.04    | 0.56 | 0.60 | 0.04    | 0.15 | 0.19 | _        | 2,023 | 2,023 | 0.02     | 0.31    | 0.10    | 2,118 |
| Average<br>Daily              | _       | -       | _    | -    | _       | -       | _    | _    | _       | -    | _    | _        | _     | -     | _        | -       | -       | _     |
| Worker                        | 0.18    | 0.16    | 0.14 | 1.67 | 0.00    | 0.00    | 0.43 | 0.43 | 0.00    | 0.10 | 0.10 | _        | 430   | 430   | 0.01     | 0.02    | 0.71    | 436   |
| Vendor                        | 0.02    | 0.01    | 0.38 | 0.18 | < 0.005 | < 0.005 | 0.07 | 0.08 | < 0.005 | 0.02 | 0.02 | _        | 295   | 295   | < 0.005  | 0.04    | 0.31    | 307   |
| Hauling                       | 0.03    | 0.02    | 1.04 | 0.24 | 0.01    | 0.02    | 0.23 | 0.24 | 0.02    | 0.06 | 0.08 | _        | 842   | 842   | 0.01     | 0.13    | 0.73    | 882   |
| Annual                        | _       | _       | _    | _    | -       | _       | _    | _    | _       | _    | _    | _        | _     | _     | _        | _       | _       | _     |
| Worker                        | 0.03    | 0.03    | 0.03 | 0.31 | 0.00    | 0.00    | 0.08 | 0.08 | 0.00    | 0.02 | 0.02 | <u> </u> | 71.1  | 71.1  | < 0.005  | < 0.005 | 0.12    | 72.2  |

| /endor  | < 0.005 | < 0.005 | 0.07 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | _ | 48.8 | 48.8 | < 0.005 | 0.01 | 0.05 | 50.8 |
|---------|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|------|------|------|
| Hauling | 0.01    | < 0.005 | 0.19 | 0.04 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01    | 0.01    | _ | 139  | 139  | < 0.005 | 0.02 | 0.12 | 146  |

# 3.8. Battery/Container Installation (2026) - Mitigated

| Location                      | TOG  | ROG     | NOx  | со   | SO2     | PM10E   | PM10D | PM10T | PM2.5E  | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R       | CO2e  |
|-------------------------------|------|---------|------|------|---------|---------|-------|-------|---------|--------|--------|------|-------|-------|---------|---------|---------|-------|
| Onsite                        | _    | _       | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max)     | _    | _       | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.95 | 0.95    | 9.31 | 48.0 | 0.04    | 0.18    | _     | 0.18  | 0.18    | _      | 0.18   | _    | 3,868 | 3,868 | 0.16    | 0.03    | _       | 3,881 |
| Onsite<br>truck               | 0.01 | 0.01    | 0.20 | 0.13 | < 0.005 | < 0.005 | 0.75  | 0.75  | < 0.005 | 0.08   | 0.08   | _    | 60.5  | 60.5  | < 0.005 | 0.01    | 0.08    | 63.5  |
| Daily,<br>Winter<br>(Max)     | _    | _       | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.95 | 0.95    | 9.31 | 48.0 | 0.04    | 0.18    | _     | 0.18  | 0.18    | _      | 0.18   | _    | 3,868 | 3,868 | 0.16    | 0.03    | _       | 3,881 |
| Onsite<br>truck               | 0.01 | 0.01    | 0.21 | 0.14 | < 0.005 | < 0.005 | 0.75  | 0.75  | < 0.005 | 0.08   | 0.08   | _    | 61.1  | 61.1  | < 0.005 | 0.01    | < 0.005 | 64.0  |
| Average<br>Daily              | _    | _       | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.40 | 0.39    | 3.88 | 20.0 | 0.02    | 0.07    | _     | 0.07  | 0.07    | _      | 0.07   | _    | 1,611 | 1,611 | 0.07    | 0.01    | _       | 1,616 |
| Onsite<br>truck               | 0.01 | < 0.005 | 0.09 | 0.06 | < 0.005 | < 0.005 | 0.28  | 0.28  | < 0.005 | 0.03   | 0.03   | _    | 25.3  | 25.3  | < 0.005 | < 0.005 | 0.02    | 26.5  |
| Annual                        | _    | _       | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _       | _       | _     |

| Off-Roa<br>Equipme        | 0.07<br>nt | 0.07    | 0.71 | 3.65 | < 0.005 | 0.01    | _    | 0.01 | 0.01    | _       | 0.01    | _ | 267   | 267   | 0.01    | < 0.005 | _       | 268   |
|---------------------------|------------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Onsite<br>truck           | < 0.005    | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.05 | 0.05 | < 0.005 | 0.01    | 0.01    | - | 4.19  | 4.19  | < 0.005 | < 0.005 | < 0.005 | 4.39  |
| Offsite                   | _          | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max) | _          | _       | _    | -    | _       | _       | _    | _    | _       | _       | _       | _ | _     | -     |         | -       | _       | -     |
| Worker                    | 0.46       | 0.45    | 0.27 | 4.97 | 0.00    | 0.00    | 1.05 | 1.05 | 0.00    | 0.25    | 0.25    | _ | 1,119 | 1,119 | 0.02    | 0.04    | 3.95    | 1,136 |
| Vendor                    | 0.05       | 0.04    | 0.86 | 0.44 | 0.01    | 0.01    | 0.18 | 0.19 | 0.01    | 0.05    | 0.06    | _ | 707   | 707   | 0.01    | 0.09    | 1.72    | 737   |
| Hauling                   | 0.08       | 0.04    | 2.35 | 0.57 | 0.01    | 0.04    | 0.56 | 0.60 | 0.04    | 0.15    | 0.19    | _ | 2,022 | 2,022 | 0.02    | 0.31    | 4.05    | 2,120 |
| Daily,<br>Winter<br>(Max) | _          | _       | _    | -    | _       | _       | _    | _    | _       | _       | _       | _ | _     | -     | _       | -       | _       | _     |
| Worker                    | 0.43       | 0.38    | 0.39 | 4.12 | 0.00    | 0.00    | 1.05 | 1.05 | 0.00    | 0.25    | 0.25    | _ | 1,012 | 1,012 | 0.03    | 0.04    | 0.10    | 1,025 |
| Vendor                    | 0.04       | 0.03    | 0.93 | 0.45 | 0.01    | 0.01    | 0.18 | 0.19 | 0.01    | 0.05    | 0.06    | _ | 708   | 708   | 0.01    | 0.09    | 0.04    | 736   |
| Hauling                   | 0.07       | 0.04    | 2.55 | 0.58 | 0.01    | 0.04    | 0.56 | 0.60 | 0.04    | 0.15    | 0.19    | _ | 2,023 | 2,023 | 0.02    | 0.31    | 0.10    | 2,118 |
| Average<br>Daily          | _          | -       | _    | _    | _       | _       | _    | _    | _       | -       | -       | - | _     | _     | _       | _       | _       | _     |
| Worker                    | 0.18       | 0.16    | 0.14 | 1.67 | 0.00    | 0.00    | 0.43 | 0.43 | 0.00    | 0.10    | 0.10    | _ | 430   | 430   | 0.01    | 0.02    | 0.71    | 436   |
| Vendor                    | 0.02       | 0.01    | 0.38 | 0.18 | < 0.005 | < 0.005 | 0.07 | 0.08 | < 0.005 | 0.02    | 0.02    | _ | 295   | 295   | < 0.005 | 0.04    | 0.31    | 307   |
| Hauling                   | 0.03       | 0.02    | 1.04 | 0.24 | 0.01    | 0.02    | 0.23 | 0.24 | 0.02    | 0.06    | 0.08    | _ | 842   | 842   | 0.01    | 0.13    | 0.73    | 882   |
| Annual                    | _          | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                    | 0.03       | 0.03    | 0.03 | 0.31 | 0.00    | 0.00    | 0.08 | 0.08 | 0.00    | 0.02    | 0.02    | _ | 71.1  | 71.1  | < 0.005 | < 0.005 | 0.12    | 72.2  |
| Vendor                    | < 0.005    | < 0.005 | 0.07 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | _ | 48.8  | 48.8  | < 0.005 | 0.01    | 0.05    | 50.8  |
| Hauling                   | 0.01       | < 0.005 | 0.19 | 0.04 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01    | 0.01    | _ | 139   | 139   | < 0.005 | 0.02    | 0.12    | 146   |

### 3.9. Substation Installation (2026) - Unmitigated

| Lo | cation | TOG | ROG | NOx | со | SO2 | PM10E | PM10D | PM10T | PM2.5E     | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|----|--------|-----|-----|-----|----|-----|-------|-------|-------|------------|--------|--------|------|-------|------|-----|-----|---|------|
| Or | site   | _   | _   | _   | _  | _   | _     | _     | _     | _          | _      | _      | _    | _     | _    | _   | _   | _ | _    |
|    |        |     |     |     |    |     |       |       |       | 00 / 4 4 0 |        |        |      |       |      |     |     |   |      |

| Daily,<br>Summer<br>(Max)     | _    | _    |      | _    | _       | _    | _    | _    |      | _    | _    | _ | _     |       | _    | _       | _    | _     |
|-------------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|------|---------|------|-------|
| Off-Roa<br>d<br>Equipm<br>ent | 3.47 | 2.90 | 27.3 | 30.0 | 0.05    | 0.89 | -    | 0.89 | 0.82 | _    | 0.82 | _ | 5,145 | 5,145 | 0.21 | 0.04    | _    | 5,162 |
| Onsite truck                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Daily,<br>Winter<br>(Max)     | _    | _    | _    | _    | _       | _    | _    | _    | _    | _    | _    | _ | _     | _     | _    | _       | _    | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 3.47 | 2.90 | 27.3 | 30.0 | 0.05    | 0.89 | _    | 0.89 | 0.82 | _    | 0.82 | _ | 5,145 | 5,145 | 0.21 | 0.04    | _    | 5,162 |
| Onsite<br>truck               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Average<br>Daily              | _    | _    | _    | _    | _       | _    | _    | _    | _    | _    | _    | _ | _     | _     | _    | _       | _    | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 1.26 | 1.05 | 9.88 | 10.9 | 0.02    | 0.32 | _    | 0.32 | 0.30 | _    | 0.30 |   | 1,860 | 1,860 | 0.08 | 0.02    | _    | 1,867 |
| Onsite<br>truck               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Annual                        | _    | _    | _    | _    | _       | _    | _    | _    | _    | _    | _    | _ | _     | _     | _    | _       | _    | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.23 | 0.19 | 1.80 | 1.98 | < 0.005 | 0.06 | _    | 0.06 | 0.05 | _    | 0.05 | _ | 308   | 308   | 0.01 | < 0.005 | _    | 309   |
| Onsite<br>truck               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Offsite                       | _    | _    | _    | _    | _       | _    | _    | _    | _    | _    | _    | _ | _     | _     | _    | _       | _    | _     |
| Daily,<br>Summer<br>(Max)     | _    | _    | -    | -    | _       | _    | _    | _    | -    | _    | _    | _ | _     | -     | _    | -       | _    | -     |

| 147                       | 0.00    | 0.00    | 0.40 | 0.04 | 0.00    | 0.00    | 0.70 | 0.70 | 0.00    | 0.40    | 0.40 |   | 7.10  | 740   | 0.04    | 0.00    | 0.04 | 757   |
|---------------------------|---------|---------|------|------|---------|---------|------|------|---------|---------|------|---|-------|-------|---------|---------|------|-------|
| Worker                    | 0.30    | 0.30    | 0.18 | 3.31 | 0.00    | 0.00    | 0.70 | 0.70 | 0.00    | 0.16    | 0.16 | _ | 746   | 746   | 0.01    | 0.03    | 2.64 | 757   |
| Vendor                    | 0.06    | 0.05    | 1.15 | 0.58 | 0.01    | 0.01    | 0.24 | 0.26 | 0.01    | 0.07    | 0.08 | _ | 943   | 943   | 0.01    | 0.12    | 2.30 | 982   |
| Hauling                   | 0.05    | 0.03    | 1.57 | 0.38 | 0.01    | 0.03    | 0.37 | 0.40 | 0.03    | 0.10    | 0.13 | _ | 1,348 | 1,348 | 0.01    | 0.21    | 2.70 | 1,413 |
| Daily,<br>Winter<br>(Max) | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _    | _ | _     | _     | _       | _       | _    | _     |
| Worker                    | 0.29    | 0.26    | 0.26 | 2.74 | 0.00    | 0.00    | 0.70 | 0.70 | 0.00    | 0.16    | 0.16 | _ | 674   | 674   | 0.02    | 0.03    | 0.07 | 684   |
| Vendor                    | 0.06    | 0.04    | 1.24 | 0.60 | 0.01    | 0.01    | 0.24 | 0.26 | 0.01    | 0.07    | 0.08 | _ | 944   | 944   | 0.01    | 0.12    | 0.06 | 981   |
| Hauling                   | 0.05    | 0.02    | 1.70 | 0.39 | 0.01    | 0.03    | 0.37 | 0.40 | 0.03    | 0.10    | 0.13 | _ | 1,349 | 1,349 | 0.01    | 0.21    | 0.07 | 1,412 |
| Average<br>Daily          | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _    | _ | _     | _     | _       | _       | _    | _     |
| Worker                    | 0.10    | 0.09    | 0.08 | 0.97 | 0.00    | 0.00    | 0.25 | 0.25 | 0.00    | 0.06    | 0.06 | _ | 249   | 249   | 0.01    | 0.01    | 0.41 | 252   |
| Vendor                    | 0.02    | 0.02    | 0.44 | 0.21 | < 0.005 | < 0.005 | 0.09 | 0.09 | < 0.005 | 0.02    | 0.03 | _ | 341   | 341   | < 0.005 | 0.05    | 0.36 | 355   |
| Hauling                   | 0.02    | 0.01    | 0.60 | 0.14 | < 0.005 | 0.01    | 0.13 | 0.14 | 0.01    | 0.04    | 0.05 | _ | 488   | 488   | < 0.005 | 0.08    | 0.42 | 511   |
| Annual                    | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _    | _ | _     | _     | _       | _       | _    | _     |
| Worker                    | 0.02    | 0.02    | 0.02 | 0.18 | 0.00    | 0.00    | 0.05 | 0.05 | 0.00    | 0.01    | 0.01 | _ | 41.2  | 41.2  | < 0.005 | < 0.005 | 0.07 | 41.8  |
| Vendor                    | < 0.005 | < 0.005 | 0.08 | 0.04 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01 | _ | 56.5  | 56.5  | < 0.005 | 0.01    | 0.06 | 58.8  |
| Hauling                   | < 0.005 | < 0.005 | 0.11 | 0.03 | < 0.005 | < 0.005 | 0.02 | 0.03 | < 0.005 | 0.01    | 0.01 | _ | 80.7  | 80.7  | < 0.005 | 0.01    | 0.07 | 84.5  |
|                           |         |         |      |      |         |         |      |      |         |         |      |   |       |       |         |         |      |       |

### 3.10. Substation Installation (2026) - Mitigated

| Location                      | TOG  | ROG  | NOx  | СО   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|-------------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Onsite                        | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _     | _    | _    | _ | _     |
| Daily,<br>Summer<br>(Max)     |      |      | _    | _    | _    | _     | _     | _     | _      |        | _      | _    | _     | _     | _    | _    | _ |       |
| Off-Roa<br>d<br>Equipm<br>ent | 0.56 | 0.56 | 8.13 | 28.8 | 0.04 | 0.09  | _     | 0.09  | 0.09   | _      | 0.09   | _    | 3,776 | 3,776 | 0.15 | 0.03 | _ | 3,789 |

| Onsite<br>truck               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
|-------------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|------|---------|------|-------|
| Daily,<br>Winter<br>(Max)     | _    | _    | _    | _    | _       | _    | _    | _    | _    | _    | _    | _ | _     | _     | _    | _       | _    | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.56 | 0.56 | 8.13 | 28.8 | 0.04    | 0.09 | _    | 0.09 | 0.09 | _    | 0.09 | _ | 3,776 | 3,776 | 0.15 | 0.03    | _    | 3,789 |
| Onsite<br>truck               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Average<br>Daily              | _    | _    | _    | _    | _       | _    | _    | _    | _    | _    | _    | _ | _     | _     | _    | _       | _    | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.20 | 0.20 | 2.94 | 10.4 | 0.01    | 0.03 | _    | 0.03 | 0.03 | _    | 0.03 | _ | 1,366 | 1,366 | 0.06 | 0.01    | _    | 1,370 |
| Onsite<br>truck               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Annual                        | _    | _    | _    | _    | _       | _    | _    | -    | _    | -    | _    | _ | _     | _     | -    | _       | _    | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.04 | 0.04 | 0.54 | 1.90 | < 0.005 | 0.01 | _    | 0.01 | 0.01 | _    | 0.01 | _ | 226   | 226   | 0.01 | < 0.005 | _    | 227   |
| Onsite<br>truck               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Offsite                       | _    | _    | _    | _    | _       | _    | _    | _    | _    | _    | _    | _ | _     | _     | _    | _       | _    | _     |
| Daily,<br>Summer<br>(Max)     | _    | _    | _    | _    |         | _    | _    | _    | _    | _    | _    | _ | _     | _     | _    | _       | _    | _     |
| Worker                        | 0.30 | 0.30 | 0.18 | 3.31 | 0.00    | 0.00 | 0.70 | 0.70 | 0.00 | 0.16 | 0.16 | _ | 746   | 746   | 0.01 | 0.03    | 2.64 | 757   |
| Vendor                        | 0.06 | 0.05 | 1.15 | 0.58 | 0.01    | 0.01 | 0.24 | 0.26 | 0.01 | 0.07 | 0.08 | _ | 943   | 943   | 0.01 | 0.12    | 2.30 | 982   |
| Hauling                       | 0.05 | 0.03 | 1.57 | 0.38 | 0.01    | 0.03 | 0.37 | 0.40 | 0.03 | 0.10 | 0.13 | _ | 1,348 | 1,348 | 0.01 | 0.21    | 2.70 | 1,413 |
| Daily,<br>Winter<br>(Max)     | _    | _    | _    | -    | _       | _    | _    | _    | _    | _    | _    | _ | _     | _     | _    | _       | _    | _     |

| Worker           | 0.29    | 0.26    | 0.26 | 2.74 | 0.00    | 0.00    | 0.70 | 0.70 | 0.00    | 0.16    | 0.16 | _ | 674   | 674   | 0.02    | 0.03    | 0.07 | 684   |
|------------------|---------|---------|------|------|---------|---------|------|------|---------|---------|------|---|-------|-------|---------|---------|------|-------|
| Vendor           | 0.06    | 0.04    | 1.24 | 0.60 | 0.01    | 0.01    | 0.24 | 0.26 | 0.01    | 0.07    | 0.08 | _ | 944   | 944   | 0.01    | 0.12    | 0.06 | 981   |
| Hauling          | 0.05    | 0.02    | 1.70 | 0.39 | 0.01    | 0.03    | 0.37 | 0.40 | 0.03    | 0.10    | 0.13 | _ | 1,349 | 1,349 | 0.01    | 0.21    | 0.07 | 1,412 |
| Average<br>Daily | _       | _       | _    | _    | -       | -       | _    | _    | _       | _       | _    | _ | _     | _     | _       | _       | _    | _     |
| Worker           | 0.10    | 0.09    | 0.08 | 0.97 | 0.00    | 0.00    | 0.25 | 0.25 | 0.00    | 0.06    | 0.06 | _ | 249   | 249   | 0.01    | 0.01    | 0.41 | 252   |
| Vendor           | 0.02    | 0.02    | 0.44 | 0.21 | < 0.005 | < 0.005 | 0.09 | 0.09 | < 0.005 | 0.02    | 0.03 | _ | 341   | 341   | < 0.005 | 0.05    | 0.36 | 355   |
| Hauling          | 0.02    | 0.01    | 0.60 | 0.14 | < 0.005 | 0.01    | 0.13 | 0.14 | 0.01    | 0.04    | 0.05 | _ | 488   | 488   | < 0.005 | 0.08    | 0.42 | 511   |
| Annual           | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _    | _ | _     | _     | _       | _       | _    | _     |
| Worker           | 0.02    | 0.02    | 0.02 | 0.18 | 0.00    | 0.00    | 0.05 | 0.05 | 0.00    | 0.01    | 0.01 | _ | 41.2  | 41.2  | < 0.005 | < 0.005 | 0.07 | 41.8  |
| Vendor           | < 0.005 | < 0.005 | 0.08 | 0.04 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01 | _ | 56.5  | 56.5  | < 0.005 | 0.01    | 0.06 | 58.8  |
| Hauling          | < 0.005 | < 0.005 | 0.11 | 0.03 | < 0.005 | < 0.005 | 0.02 | 0.03 | < 0.005 | 0.01    | 0.01 | _ | 80.7  | 80.7  | < 0.005 | 0.01    | 0.07 | 84.5  |

#### 3.11. Gen-tie Foundations, Tower Erection, and Underground Installation (2026) - Unmitigated

| Location                      | TOG  | ROG  | NOx  | СО   | SO2     | PM10E   | PM10D | PM10T | PM2.5E  | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4     | N2O  | R    | CO2e  |
|-------------------------------|------|------|------|------|---------|---------|-------|-------|---------|--------|--------|------|-------|-------|---------|------|------|-------|
| Onsite                        | _    | _    | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _    | _    | _     |
| Daily,<br>Summer<br>(Max)     | _    | _    | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _    | _    | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 1.97 | 1.65 | 12.7 | 14.7 | 0.04    | 0.43    | _     | 0.43  | 0.39    | _      | 0.39   | _    | 3,500 | 3,500 | 0.14    | 0.03 | _    | 3,512 |
| Onsite truck                  | 0.01 | 0.01 | 0.20 | 0.13 | < 0.005 | < 0.005 | 18.4  | 18.4  | < 0.005 | 1.84   | 1.84   | _    | 60.5  | 60.5  | < 0.005 | 0.01 | 0.08 | 63.5  |
| Daily,<br>Winter<br>(Max)     | _    | _    | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _    | _    | _     |

| Off-Roa<br>d<br>Equipm        | 1.97    | 1.65    | 12.7 | 14.7 | 0.04    | 0.43    | _    | 0.43 | 0.39    | _    | 0.39 | _ | 3,500 | 3,500 | 0.14    | 0.03    | _       | 3,512 |
|-------------------------------|---------|---------|------|------|---------|---------|------|------|---------|------|------|---|-------|-------|---------|---------|---------|-------|
| ent                           |         |         |      |      |         |         |      |      |         |      |      |   |       |       |         |         |         |       |
| Onsite<br>truck               | 0.01    | 0.01    | 0.21 | 0.14 | < 0.005 | < 0.005 | 18.4 | 18.4 | < 0.005 | 1.84 | 1.84 | _ | 61.1  | 61.1  | < 0.005 | 0.01    | < 0.005 | 64.0  |
| Average<br>Daily              | _       | _       | _    | _    | _       | _       | _    | _    | _       | _    | _    | _ | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.71    | 0.60    | 4.58 | 5.33 | 0.01    | 0.16    | _    | 0.16 | 0.14    | _    | 0.14 | _ | 1,266 | 1,266 | 0.05    | 0.01    | _       | 1,270 |
| Onsite<br>truck               | < 0.005 | < 0.005 | 0.07 | 0.05 | < 0.005 | < 0.005 | 6.02 | 6.02 | < 0.005 | 0.60 | 0.60 | _ | 22.0  | 22.0  | < 0.005 | < 0.005 | 0.01    | 23.0  |
| Annual                        | _       | _       | _    | _    | _       | _       | _    | _    | -       | _    | _    | _ | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.13    | 0.11    | 0.84 | 0.97 | < 0.005 | 0.03    | _    | 0.03 | 0.03    | _    | 0.03 | _ | 210   | 210   | 0.01    | < 0.005 | -       | 210   |
| Onsite<br>truck               | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | 1.10 | 1.10 | < 0.005 | 0.11 | 0.11 | _ | 3.64  | 3.64  | < 0.005 | < 0.005 | < 0.005 | 3.81  |
| Offsite                       | _       | _       | _    | _    | _       | _       | _    | _    | _       | _    | _    | _ | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max)     | _       | _       | _    | -    | _       | _       | _    | -    | _       | _    | _    | _ | _     | -     | _       | _       | _       | _     |
| Worker                        | 0.30    | 0.30    | 0.18 | 3.31 | 0.00    | 0.00    | 0.70 | 0.70 | 0.00    | 0.16 | 0.16 | _ | 746   | 746   | 0.01    | 0.03    | 2.64    | 757   |
| Vendor                        | 0.02    | 0.02    | 0.46 | 0.23 | < 0.005 | 0.01    | 0.10 | 0.10 | 0.01    | 0.03 | 0.03 | _ | 377   | 377   | < 0.005 | 0.05    | 0.92    | 393   |
| Hauling                       | 0.12    | 0.06    | 3.61 | 0.88 | 0.02    | 0.06    | 0.85 | 0.91 | 0.06    | 0.23 | 0.29 | _ | 3,100 | 3,100 | 0.03    | 0.48    | 6.21    | 3,250 |
| Daily,<br>Winter<br>(Max)     | _       | _       | _    | _    | _       | _       | _    | _    | -       | _    | _    | _ | _     | _     | _       | _       | _       | _     |
| Worker                        | 0.29    | 0.26    | 0.26 | 2.74 | 0.00    | 0.00    | 0.70 | 0.70 | 0.00    | 0.16 | 0.16 | _ | 674   | 674   | 0.02    | 0.03    | 0.07    | 684   |
| Vendor                        | 0.02    | 0.02    | 0.50 | 0.24 | < 0.005 | 0.01    | 0.10 | 0.10 | 0.01    | 0.03 | 0.03 | _ | 378   | 378   | < 0.005 | 0.05    | 0.02    | 393   |
| Hauling                       | 0.11    | 0.06    | 3.91 | 0.90 | 0.02    | 0.06    | 0.85 | 0.91 | 0.06    | 0.23 | 0.29 | _ | 3,102 | 3,102 | 0.03    | 0.48    | 0.16    | 3,247 |

| Average<br>Daily | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _     | _     | _       | _       | _    | _     |
|------------------|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Worker           | 0.10    | 0.09    | 0.08 | 0.97 | 0.00    | 0.00    | 0.25 | 0.25 | 0.00    | 0.06    | 0.06    | _ | 249   | 249   | 0.01    | 0.01    | 0.41 | 252   |
| Vendor           | 0.01    | 0.01    | 0.18 | 0.09 | < 0.005 | < 0.005 | 0.03 | 0.04 | < 0.005 | 0.01    | 0.01    | _ | 136   | 136   | < 0.005 | 0.02    | 0.14 | 142   |
| Hauling          | 0.04    | 0.02    | 1.38 | 0.32 | 0.01    | 0.02    | 0.30 | 0.33 | 0.02    | 0.08    | 0.11    | _ | 1,121 | 1,121 | 0.01    | 0.17    | 0.97 | 1,175 |
| Annual           | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _     | _     | _       | _       | _    | _     |
| Worker           | 0.02    | 0.02    | 0.02 | 0.18 | 0.00    | 0.00    | 0.05 | 0.05 | 0.00    | 0.01    | 0.01    | _ | 41.2  | 41.2  | < 0.005 | < 0.005 | 0.07 | 41.8  |
| Vendor           | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | _ | 22.6  | 22.6  | < 0.005 | < 0.005 | 0.02 | 23.5  |
| Hauling          | 0.01    | < 0.005 | 0.25 | 0.06 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02    | 0.02    | _ | 186   | 186   | < 0.005 | 0.03    | 0.16 | 194   |

### 3.12. Gen-tie Foundations, Tower Erection, and Underground Installation (2026) - Mitigated

| Location                      | TOG  | ROG  | NOx  | СО   | SO2     | PM10E   | PM10D | PM10T |         | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4     | N2O  | R       | CO2e  |
|-------------------------------|------|------|------|------|---------|---------|-------|-------|---------|--------|--------|------|-------|-------|---------|------|---------|-------|
| Onsite                        | _    | _    | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _    | _       | _     |
| Daily,<br>Summer<br>(Max)     | _    | _    | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _    | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.47 | 0.45 | 5.71 | 19.7 | 0.04    | 0.09    | _     | 0.09  | 0.09    | _      | 0.09   | _    | 3,500 | 3,500 | 0.14    | 0.03 | _       | 3,512 |
| Onsite<br>truck               | 0.01 | 0.01 | 0.20 | 0.13 | < 0.005 | < 0.005 | 0.75  | 0.75  | < 0.005 | 0.08   | 0.08   | _    | 60.5  | 60.5  | < 0.005 | 0.01 | 0.08    | 63.5  |
| Daily,<br>Winter<br>(Max)     | _    | _    | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _    | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.47 | 0.45 | 5.71 | 19.7 | 0.04    | 0.09    | _     | 0.09  | 0.09    | _      | 0.09   | _    | 3,500 | 3,500 | 0.14    | 0.03 | _       | 3,512 |
| Onsite<br>truck               | 0.01 | 0.01 | 0.21 | 0.14 | < 0.005 | < 0.005 | 0.75  | 0.75  | < 0.005 | 0.08   | 0.08   | _    | 61.1  | 61.1  | < 0.005 | 0.01 | < 0.005 | 64.0  |

| Average<br>Daily              | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
|-------------------------------|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Off-Roa<br>d<br>Equipm<br>ent | 0.17    | 0.16    | 2.07 | 7.12 | 0.01    | 0.03    | _    | 0.03 | 0.03    | _       | 0.03    | - | 1,266 | 1,266 | 0.05    | 0.01    | -       | 1,270 |
| Onsite<br>truck               | < 0.005 | < 0.005 | 0.07 | 0.05 | < 0.005 | < 0.005 | 0.24 | 0.24 | < 0.005 | 0.02    | 0.02    | _ | 22.0  | 22.0  | < 0.005 | < 0.005 | 0.01    | 23.0  |
| Annual                        | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.03    | 0.03    | 0.38 | 1.30 | < 0.005 | 0.01    | _    | 0.01 | 0.01    | _       | 0.01    | _ | 210   | 210   | 0.01    | < 0.005 | _       | 210   |
| Onsite<br>truck               | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | < 0.005 | < 0.005 | _ | 3.64  | 3.64  | < 0.005 | < 0.005 | < 0.005 | 3.81  |
| Offsite                       | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max)     | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _     | _     | -       | _       | _       | _     |
| Worker                        | 0.30    | 0.30    | 0.18 | 3.31 | 0.00    | 0.00    | 0.70 | 0.70 | 0.00    | 0.16    | 0.16    | _ | 746   | 746   | 0.01    | 0.03    | 2.64    | 757   |
| Vendor                        | 0.02    | 0.02    | 0.46 | 0.23 | < 0.005 | 0.01    | 0.10 | 0.10 | 0.01    | 0.03    | 0.03    | _ | 377   | 377   | < 0.005 | 0.05    | 0.92    | 393   |
| Hauling                       | 0.12    | 0.06    | 3.61 | 0.88 | 0.02    | 0.06    | 0.85 | 0.91 | 0.06    | 0.23    | 0.29    | _ | 3,100 | 3,100 | 0.03    | 0.48    | 6.21    | 3,250 |
| Daily,<br>Winter<br>(Max)     | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                        | 0.29    | 0.26    | 0.26 | 2.74 | 0.00    | 0.00    | 0.70 | 0.70 | 0.00    | 0.16    | 0.16    | _ | 674   | 674   | 0.02    | 0.03    | 0.07    | 684   |
| Vendor                        | 0.02    | 0.02    | 0.50 | 0.24 | < 0.005 | 0.01    | 0.10 | 0.10 | 0.01    | 0.03    | 0.03    | _ | 378   | 378   | < 0.005 | 0.05    | 0.02    | 393   |
| Hauling                       | 0.11    | 0.06    | 3.91 | 0.90 | 0.02    | 0.06    | 0.85 | 0.91 | 0.06    | 0.23    | 0.29    | _ | 3,102 | 3,102 | 0.03    | 0.48    | 0.16    | 3,247 |
| Average<br>Daily              | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | -       | _ | _     | _     | _       | _       | -       | _     |
| Worker                        | 0.10    | 0.09    | 0.08 | 0.97 | 0.00    | 0.00    | 0.25 | 0.25 | 0.00    | 0.06    | 0.06    | _ | 249   | 249   | 0.01    | 0.01    | 0.41    | 252   |
| Vendor                        | 0.01    | 0.01    | 0.18 | 0.09 | < 0.005 | < 0.005 | 0.03 | 0.04 | < 0.005 | 0.01    | 0.01    | _ | 136   | 136   | < 0.005 | 0.02    | 0.14    | 142   |
| Hauling                       | 0.04    | 0.02    | 1.38 | 0.32 | 0.01    | 0.02    | 0.30 | 0.33 | 0.02    | 0.08    | 0.11    | _ | 1,121 | 1,121 | 0.01    | 0.17    | 0.97    | 1,175 |
| Annual                        | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |

37 / 113

| Worker  | 0.02    | 0.02    | 0.02 | 0.18 | 0.00    | 0.00    | 0.05 | 0.05 | 0.00    | 0.01    | 0.01    | _ | 41.2 | 41.2 | < 0.005 | < 0.005 | 0.07 | 41.8 |
|---------|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Vendor  | < 0.005 | < 0.005 | 0.03 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | _ | 22.6 | 22.6 | < 0.005 | < 0.005 | 0.02 | 23.5 |
| Hauling | 0.01    | < 0.005 | 0.25 | 0.06 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02    | 0.02    | _ | 186  | 186  | < 0.005 | 0.03    | 0.16 | 194  |

#### 3.13. Gen-tie Stringing and Pulling (2026) - Unmitigated

| Location                      | TOG     | ROG     | NOx  | со   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R       | CO2e |
|-------------------------------|---------|---------|------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|------|---------|---------|---------|------|
| Onsite                        | _       | _       | _    | _    | _       | _       | _     | _       | _       | _      | _       | _    | _     | _    | _       | _       | _       | _    |
| Daily,<br>Summer<br>(Max)     | _       | _       | _    | _    | _       | _       | _     | _       | _       | _      | _       | _    | _     | _    | _       | _       | _       | _    |
| Daily,<br>Winter<br>(Max)     | _       | _       | _    | _    | _       | _       | _     | _       | _       | _      | _       | _    | _     | _    | _       | _       | _       | _    |
| Off-Roa<br>d<br>Equipm<br>ent | 0.25    | 0.21    | 2.63 | 4.02 | 0.01    | 0.06    | _     | 0.06    | 0.06    | _      | 0.06    | _    | 657   | 657  | 0.03    | 0.01    | _       | 659  |
| Onsite<br>truck               | 0.01    | 0.01    | 0.21 | 0.14 | < 0.005 | < 0.005 | 18.4  | 18.4    | < 0.005 | 1.84   | 1.84    | _    | 61.1  | 61.1 | < 0.005 | 0.01    | < 0.005 | 64.0 |
| Average<br>Daily              | _       | -       | _    | _    | _       | _       | _     | _       | _       | _      | _       | _    | _     | _    | _       | _       | _       | -    |
| Off-Roa<br>d<br>Equipm<br>ent | 0.03    | 0.02    | 0.31 | 0.48 | < 0.005 | 0.01    | _     | 0.01    | 0.01    | _      | 0.01    | -    | 78.4  | 78.4 | < 0.005 | < 0.005 | _       | 78.7 |
| Onsite<br>truck               | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 1.99  | 1.99    | < 0.005 | 0.20   | 0.20    | _    | 7.25  | 7.25 | < 0.005 | < 0.005 | < 0.005 | 7.60 |
| Annual                        | _       | _       | _    | _    | _       | _       | _     | _       | _       | _      | _       | _    | _     | _    | _       | _       | _       | _    |
| Off-Roa<br>d<br>Equipm<br>ent | 0.01    | < 0.005 | 0.06 | 0.09 | < 0.005 | < 0.005 | _     | < 0.005 | < 0.005 | _      | < 0.005 | -    | 13.0  | 13.0 | < 0.005 | < 0.005 | _       | 13.0 |

| Onsite<br>truck           | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.36    | 0.36    | < 0.005 | 0.04    | 0.04    | _ | 1.20  | 1.20  | < 0.005 | < 0.005 | < 0.005 | 1.26  |
|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Offsite                   | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max) | _       | _       | _       | -       | -       | _       | _       | _       | _       | _       | _       | _ | _     | -     | _       | _       | -       | _     |
| Daily,<br>Winter<br>(Max) | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                    | 0.29    | 0.26    | 0.26    | 2.74    | 0.00    | 0.00    | 0.70    | 0.70    | 0.00    | 0.16    | 0.16    | _ | 674   | 674   | 0.02    | 0.03    | 0.07    | 684   |
| Vendor                    | 0.02    | 0.02    | 0.50    | 0.24    | < 0.005 | 0.01    | 0.10    | 0.10    | 0.01    | 0.03    | 0.03    | _ | 378   | 378   | < 0.005 | 0.05    | 0.02    | 393   |
| Hauling                   | 0.05    | 0.02    | 1.70    | 0.39    | 0.01    | 0.03    | 0.37    | 0.40    | 0.03    | 0.10    | 0.13    | _ | 1,349 | 1,349 | 0.01    | 0.21    | 0.07    | 1,412 |
| Average<br>Daily          | _       | _       | _       | _       | -       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                    | 0.03    | 0.03    | 0.03    | 0.32    | 0.00    | 0.00    | 0.08    | 0.08    | 0.00    | 0.02    | 0.02    | _ | 82.1  | 82.1  | < 0.005 | < 0.005 | 0.14    | 83.3  |
| Vendor                    | < 0.005 | < 0.005 | 0.06    | 0.03    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 45.0  | 45.0  | < 0.005 | 0.01    | 0.05    | 46.9  |
| Hauling                   | 0.01    | < 0.005 | 0.20    | 0.05    | < 0.005 | < 0.005 | 0.04    | 0.05    | < 0.005 | 0.01    | 0.02    | _ | 161   | 161   | < 0.005 | 0.02    | 0.14    | 169   |
| Annual                    | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | -     |
| Worker                    | 0.01    | 0.01    | 0.01    | 0.06    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | _ | 13.6  | 13.6  | < 0.005 | < 0.005 | 0.02    | 13.8  |
| Vendor                    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 7.46  | 7.46  | < 0.005 | < 0.005 | 0.01    | 7.76  |
| Hauling                   | < 0.005 | < 0.005 | 0.04    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 26.6  | 26.6  | < 0.005 | < 0.005 | 0.02    | 27.9  |

### 3.14. Gen-tie Stringing and Pulling (2026) - Mitigated

| Location                  | TOG | ROG | NOx | СО | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite                    | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      |        | _    | _     | _    | _   | _   |   | _    |
| Daily,<br>Winter<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

| Off-Roa<br>Equipmeı           |         | 0.08    | 1.25    | 4.59    | 0.01    | 0.01    | _    | 0.01    | 0.01    | _       | 0.01    | _ | 657   | 657   | 0.03    | 0.01    | _       | 659   |
|-------------------------------|---------|---------|---------|---------|---------|---------|------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Onsite<br>truck               | 0.01    | 0.01    | 0.21    | 0.14    | < 0.005 | < 0.005 | 0.75 | 0.75    | < 0.005 | 0.08    | 0.08    | _ | 61.1  | 61.1  | < 0.005 | 0.01    | < 0.005 | 64.0  |
| Average<br>Daily              | _       | _       | _       | _       | _       | -       | -    | _       | -       | -       | -       | _ | _     | _     | _       | -       | -       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.01    | 0.01    | 0.15    | 0.55    | < 0.005 | < 0.005 | _    | < 0.005 | < 0.005 | _       | < 0.005 | _ | 78.4  | 78.4  | < 0.005 | < 0.005 | _       | 78.7  |
| Onsite<br>truck               | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | 0.08 | 0.08    | < 0.005 | 0.01    | 0.01    | _ | 7.25  | 7.25  | < 0.005 | < 0.005 | < 0.005 | 7.60  |
| Annual                        | _       | _       | _       | _       | _       | _       | _    | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | < 0.005 | < 0.005 | 0.03    | 0.10    | < 0.005 | < 0.005 | _    | < 0.005 | < 0.005 | _       | < 0.005 | _ | 13.0  | 13.0  | < 0.005 | < 0.005 | _       | 13.0  |
| Onsite<br>truck               | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 1.20  | 1.20  | < 0.005 | < 0.005 | < 0.005 | 1.26  |
| Offsite                       | _       | _       | _       | _       | _       | _       | _    | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max)     | _       | _       | -       | _       | -       | _       | _    | _       | -       | -       | -       | _ | _     | -     | _       | -       | -       | -     |
| Daily,<br>Winter<br>(Max)     | _       | _       | _       | _       | _       | _       | _    | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                        | 0.29    | 0.26    | 0.26    | 2.74    | 0.00    | 0.00    | 0.70 | 0.70    | 0.00    | 0.16    | 0.16    | _ | 674   | 674   | 0.02    | 0.03    | 0.07    | 684   |
| Vendor                        | 0.02    | 0.02    | 0.50    | 0.24    | < 0.005 | 0.01    | 0.10 | 0.10    | 0.01    | 0.03    | 0.03    | _ | 378   | 378   | < 0.005 | 0.05    | 0.02    | 393   |
| Hauling                       | 0.05    | 0.02    | 1.70    | 0.39    | 0.01    | 0.03    | 0.37 | 0.40    | 0.03    | 0.10    | 0.13    | _ | 1,349 | 1,349 | 0.01    | 0.21    | 0.07    | 1,412 |
| Average<br>Daily              | _       | _       | _       | _       | _       | _       | _    | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                        | 0.03    | 0.03    | 0.03    | 0.32    | 0.00    | 0.00    | 0.08 | 0.08    | 0.00    | 0.02    | 0.02    | _ | 82.1  | 82.1  | < 0.005 | < 0.005 | 0.14    | 83.3  |
| Vendor                        | < 0.005 | < 0.005 | 0.06    | 0.03    | < 0.005 | < 0.005 | 0.01 | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 45.0  | 45.0  | < 0.005 | 0.01    | 0.05    | 46.9  |
| Hauling                       | 0.01    | < 0.005 | 0.20    | 0.05    | < 0.005 | < 0.005 | 0.04 | 0.05    | < 0.005 | 0.01    | 0.02    | _ | 161   | 161   | < 0.005 | 0.02    | 0.14    | 169   |

| Annual  | _       | _       | _    | _    | _       | _       | _       | _       |         | _       | _       | _ | _    | _    | _       | _       | _    | _    |
|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Worker  | 0.01    | 0.01    | 0.01 | 0.06 | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | _ | 13.6 | 13.6 | < 0.005 | < 0.005 | 0.02 | 13.8 |
| Vendor  | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 7.46 | 7.46 | < 0.005 | < 0.005 | 0.01 | 7.76 |
| Hauling | < 0.005 | < 0.005 | 0.04 | 0.01 | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 26.6 | 26.6 | < 0.005 | < 0.005 | 0.02 | 27.9 |

### 3.15. Gen-tie Stringing and Pulling (2027) - Unmitigated

| Location                      | TOG     | ROG     | NOx  | со   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R       | CO2e |
|-------------------------------|---------|---------|------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|------|---------|---------|---------|------|
| Onsite                        | _       | _       | _    | _    | _       | _       | _     | _       | _       | _      | _       | _    | _     | _    | _       | _       | _       | _    |
| Daily,<br>Summer<br>(Max)     | _       | _       | _    | _    | _       | _       | _     | _       | _       | _      | _       | _    | _     | _    | _       | _       | _       | _    |
| Daily,<br>Winter<br>(Max)     | _       | _       | _    | _    | _       | _       | _     | _       | _       | _      | _       | _    | _     | _    | _       | _       | _       | _    |
| Off-Roa<br>d<br>Equipm<br>ent | 0.24    | 0.20    | 2.57 | 4.03 | 0.01    | 0.05    | _     | 0.05    | 0.05    | _      | 0.05    | _    | 657   | 657  | 0.03    | 0.01    | _       | 659  |
| Onsite truck                  | 0.01    | 0.01    | 0.21 | 0.14 | < 0.005 | < 0.005 | 18.4  | 18.4    | < 0.005 | 1.84   | 1.84    | _    | 59.7  | 59.7 | < 0.005 | 0.01    | < 0.005 | 62.6 |
| Average<br>Daily              | _       | _       | _    | _    | _       | _       | _     | _       | _       | _      | _       | _    | _     | _    | _       | _       | _       | _    |
| Off-Roa<br>d<br>Equipm<br>ent | 0.01    | 0.01    | 0.16 | 0.24 | < 0.005 | < 0.005 | _     | < 0.005 | < 0.005 | _      | < 0.005 | _    | 39.9  | 39.9 | < 0.005 | < 0.005 | _       | 40.0 |
| Onsite truck                  | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | 1.01  | 1.01    | < 0.005 | 0.10   | 0.10    | _    | 3.60  | 3.60 | < 0.005 | < 0.005 | < 0.005 | 3.78 |
| Annual                        | _       | _       | _    | _    | _       | _       | _     | _       | _       | _      | _       | _    | _     | _    | _       | _       | _       | _    |
| Off-Roa<br>d<br>Equipm<br>ent | < 0.005 | < 0.005 | 0.03 | 0.04 | < 0.005 | < 0.005 | _     | < 0.005 | < 0.005 | _      | < 0.005 | _    | 6.60  | 6.60 | < 0.005 | < 0.005 | _       | 6.62 |

| Onsite<br>truck           | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.18    | 0.18    | < 0.005 | 0.02    | 0.02    | _ | 0.60  | 0.60  | < 0.005 | < 0.005 | < 0.005 | 0.63  |
|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Offsite                   | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max) | _       | _       | _       | -       | -       | _       | _       | _       | _       | _       | _       | - | _     | _     | _       | _       | _       | _     |
| Daily,<br>Winter<br>(Max) | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                    | 0.27    | 0.24    | 0.24    | 2.56    | 0.00    | 0.00    | 0.70    | 0.70    | 0.00    | 0.16    | 0.16    | _ | 662   | 662   | 0.02    | 0.03    | 0.06    | 671   |
| Vendor                    | 0.02    | 0.01    | 0.48    | 0.23    | < 0.005 | 0.01    | 0.10    | 0.10    | 0.01    | 0.03    | 0.03    | _ | 369   | 369   | < 0.005 | 0.05    | 0.02    | 384   |
| Hauling                   | 0.05    | 0.02    | 1.66    | 0.38    | 0.01    | 0.03    | 0.37    | 0.40    | 0.03    | 0.10    | 0.13    | _ | 1,317 | 1,317 | 0.01    | 0.21    | 0.06    | 1,380 |
| Average<br>Daily          | _       | _       | _       | -       | -       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                    | 0.02    | 0.01    | 0.01    | 0.15    | 0.00    | 0.00    | 0.04    | 0.04    | 0.00    | 0.01    | 0.01    | _ | 40.9  | 40.9  | < 0.005 | < 0.005 | 0.06    | 41.5  |
| Vendor                    | < 0.005 | < 0.005 | 0.03    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 22.4  | 22.4  | < 0.005 | < 0.005 | 0.02    | 23.3  |
| Hauling                   | < 0.005 | < 0.005 | 0.10    | 0.02    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | 0.01    | 0.01    | _ | 79.9  | 79.9  | < 0.005 | 0.01    | 0.07    | 83.7  |
| Annual                    | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                    | < 0.005 | < 0.005 | < 0.005 | 0.03    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | _ | 6.78  | 6.78  | < 0.005 | < 0.005 | 0.01    | 6.87  |
| Vendor                    | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 3.71  | 3.71  | < 0.005 | < 0.005 | < 0.005 | 3.86  |
| Hauling                   | < 0.005 | < 0.005 | 0.02    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 13.2  | 13.2  | < 0.005 | < 0.005 | 0.01    | 13.9  |

### 3.16. Gen-tie Stringing and Pulling (2027) - Mitigated

| Location                  | TOG | ROG | NOx | СО | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite                    | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      |        | _    | _     | _    | _   | _   |   | _    |
| Daily,<br>Winter<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

| Off-Roa<br>Equipmer           |         | 0.08    | 1.25    | 4.59    | 0.01    | 0.01    | _    | 0.01    | 0.01    | _       | 0.01    | _ | 657   | 657   | 0.03    | 0.01    | _       | 659   |
|-------------------------------|---------|---------|---------|---------|---------|---------|------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Onsite<br>truck               | 0.01    | 0.01    | 0.21    | 0.14    | < 0.005 | < 0.005 | 0.75 | 0.75    | < 0.005 | 0.08    | 0.08    | _ | 59.7  | 59.7  | < 0.005 | 0.01    | < 0.005 | 62.6  |
| Average<br>Daily              | _       | _       | _       | _       | _       | -       | -    | _       | _       | _       | -       | _ | _     | _     | _       | -       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | < 0.005 | < 0.005 | 0.08    | 0.28    | < 0.005 | < 0.005 | _    | < 0.005 | < 0.005 | _       | < 0.005 | _ | 39.9  | 39.9  | < 0.005 | < 0.005 | _       | 40.0  |
| Onsite<br>truck               | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | 0.04 | 0.04    | < 0.005 | < 0.005 | < 0.005 | _ | 3.60  | 3.60  | < 0.005 | < 0.005 | < 0.005 | 3.78  |
| Annual                        | _       | _       | _       | _       | _       | _       | _    | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | < 0.005 | < 0.005 | 0.01    | 0.05    | < 0.005 | < 0.005 | _    | < 0.005 | < 0.005 | _       | < 0.005 | _ | 6.60  | 6.60  | < 0.005 | < 0.005 | _       | 6.62  |
| Onsite<br>truck               | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 0.60  | 0.60  | < 0.005 | < 0.005 | < 0.005 | 0.63  |
| Offsite                       | _       | _       | _       | _       | _       | _       | _    | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max)     | _       | -       | -       | _       | _       | _       | _    | _       | _       | _       | _       | _ | _     | -     | _       | _       | -       | _     |
| Daily,<br>Winter<br>(Max)     | _       | _       | _       | _       | _       | _       | _    | _       | _       | _       | _       | _ | _     | -     | -       | _       | -       | _     |
| Worker                        | 0.27    | 0.24    | 0.24    | 2.56    | 0.00    | 0.00    | 0.70 | 0.70    | 0.00    | 0.16    | 0.16    | _ | 662   | 662   | 0.02    | 0.03    | 0.06    | 671   |
| Vendor                        | 0.02    | 0.01    | 0.48    | 0.23    | < 0.005 | 0.01    | 0.10 | 0.10    | 0.01    | 0.03    | 0.03    | _ | 369   | 369   | < 0.005 | 0.05    | 0.02    | 384   |
| Hauling                       | 0.05    | 0.02    | 1.66    | 0.38    | 0.01    | 0.03    | 0.37 | 0.40    | 0.03    | 0.10    | 0.13    | _ | 1,317 | 1,317 | 0.01    | 0.21    | 0.06    | 1,380 |
| Average<br>Daily              | _       | _       | _       | _       | _       | _       | _    | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                        | 0.02    | 0.01    | 0.01    | 0.15    | 0.00    | 0.00    | 0.04 | 0.04    | 0.00    | 0.01    | 0.01    | _ | 40.9  | 40.9  | < 0.005 | < 0.005 | 0.06    | 41.5  |
| Vendor                        | < 0.005 | < 0.005 | 0.03    | 0.01    | < 0.005 | < 0.005 | 0.01 | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 22.4  | 22.4  | < 0.005 | < 0.005 | 0.02    | 23.3  |
| Hauling                       | < 0.005 | < 0.005 | 0.10    | 0.02    | < 0.005 | < 0.005 | 0.02 | 0.02    | < 0.005 | 0.01    | 0.01    | _ | 79.9  | 79.9  | < 0.005 | 0.01    | 0.07    | 83.7  |

| Annual  | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Worker  | < 0.005 | < 0.005 | < 0.005 | 0.03    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | _ | 6.78 | 6.78 | < 0.005 | < 0.005 | 0.01    | 6.87 |
| Vendor  | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 3.71 | 3.71 | < 0.005 | < 0.005 | < 0.005 | 3.86 |
| Hauling | < 0.005 | < 0.005 | 0.02    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 13.2 | 13.2 | < 0.005 | < 0.005 | 0.01    | 13.9 |

## 3.17. Commissioning (2027) - Unmitigated

| Location                  | TOG     | ROG     | NOx  | со   | SO2     | PM10E   | PM10D | PM10T | PM2.5E  | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R       | CO2e  |
|---------------------------|---------|---------|------|------|---------|---------|-------|-------|---------|--------|--------|------|-------|-------|---------|---------|---------|-------|
| Onsite                    | _       | _       | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max) | _       | _       | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _       | _       | _     |
| Onsite<br>truck           | 0.03    | 0.02    | 0.39 | 0.26 | < 0.005 | < 0.005 | 36.8  | 36.8  | < 0.005 | 3.67   | 3.68   | _    | 118   | 118   | < 0.005 | 0.02    | 0.16    | 124   |
| Daily,<br>Winter<br>(Max) | _       | _       | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _       | _       | _     |
| Onsite<br>truck           | 0.02    | 0.02    | 0.42 | 0.27 | < 0.005 | < 0.005 | 36.8  | 36.8  | < 0.005 | 3.67   | 3.68   | _    | 119   | 119   | < 0.005 | 0.02    | < 0.005 | 125   |
| Average<br>Daily          | _       | _       | _    | -    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _       | _       | _     |
| Onsite<br>truck           | < 0.005 | < 0.005 | 0.07 | 0.05 | < 0.005 | < 0.005 | 5.93  | 5.93  | < 0.005 | 0.59   | 0.59   | _    | 21.2  | 21.2  | < 0.005 | < 0.005 | 0.01    | 22.2  |
| Annual                    | _       | _       | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _       | _       | _     |
| Onsite<br>truck           | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | 1.08  | 1.08  | < 0.005 | 0.11   | 0.11   | _    | 3.50  | 3.50  | < 0.005 | < 0.005 | < 0.005 | 3.67  |
| Offsite                   | _       | _       | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max) | _       | _       | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _       | _       | _     |
| Worker                    | 0.55    | 0.50    | 0.34 | 5.81 | 0.00    | 0.00    | 1.31  | 1.31  | 0.00    | 0.31   | 0.31   | _    | 1,372 | 1,372 | 0.02    | 0.05    | 4.47    | 1,392 |
| Vendor                    | 0.06    | 0.04    | 1.11 | 0.55 | 0.01    | 0.01    | 0.24  | 0.26  | 0.01    | 0.07   | 0.08   | _    | 922   | 922   | 0.01    | 0.12    | 2.08    | 961   |

| Hauling                   | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | _ | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
|---------------------------|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Daily,<br>Winter<br>(Max) | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _     | _     | _       | _       | _    | _     |
| Worker                    | 0.52    | 0.46    | 0.44 | 4.79 | 0.00    | 0.00    | 1.31 | 1.31 | 0.00    | 0.31    | 0.31    | _ | 1,240 | 1,240 | 0.03    | 0.05    | 0.12 | 1,257 |
| Vendor                    | 0.05    | 0.04    | 1.19 | 0.57 | 0.01    | 0.01    | 0.24 | 0.26 | 0.01    | 0.07    | 0.08    | _ | 924   | 924   | 0.01    | 0.12    | 0.05 | 961   |
| Hauling                   | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | _ | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Average<br>Daily          | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _     | _     | _       | _       | _    | _     |
| Worker                    | 0.09    | 0.08    | 0.07 | 0.84 | 0.00    | 0.00    | 0.23 | 0.23 | 0.00    | 0.05    | 0.05    | _ | 225   | 225   | < 0.005 | 0.01    | 0.34 | 228   |
| Vendor                    | 0.01    | 0.01    | 0.21 | 0.10 | < 0.005 | < 0.005 | 0.04 | 0.05 | < 0.005 | 0.01    | 0.01    | _ | 164   | 164   | < 0.005 | 0.02    | 0.16 | 171   |
| Hauling                   | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | _ | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual                    | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _     | _     | _       | _       | _    | _     |
| Worker                    | 0.02    | 0.01    | 0.01 | 0.15 | 0.00    | 0.00    | 0.04 | 0.04 | 0.00    | 0.01    | 0.01    | _ | 37.3  | 37.3  | < 0.005 | < 0.005 | 0.06 | 37.8  |
| Vendor                    | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | _ | 27.2  | 27.2  | < 0.005 | < 0.005 | 0.03 | 28.3  |
| Hauling                   | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | _ | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |

# 3.18. Commissioning (2027) - Mitigated

| Location                  | TOG  | ROG  | NOx  | со   | SO2     | PM10E   | PM10D | PM10T | PM2.5E  | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4     | N2O  | R       | CO2e |
|---------------------------|------|------|------|------|---------|---------|-------|-------|---------|--------|--------|------|-------|------|---------|------|---------|------|
| Onsite                    | _    | _    | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _    | _       | _    | _       | _    |
| Daily,<br>Summer<br>(Max) | _    | _    | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _    | _       | _    | _       | _    |
| Onsite truck              | 0.03 | 0.02 | 0.39 | 0.26 | < 0.005 | < 0.005 | 1.49  | 1.49  | < 0.005 | 0.15   | 0.15   | _    | 118   | 118  | < 0.005 | 0.02 | 0.16    | 124  |
| Daily,<br>Winter<br>(Max) | _    | _    | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _    | _       | _    | _       | _    |
| Onsite truck              | 0.02 | 0.02 | 0.42 | 0.27 | < 0.005 | < 0.005 | 1.49  | 1.49  | < 0.005 | 0.15   | 0.15   | _    | 119   | 119  | < 0.005 | 0.02 | < 0.005 | 125  |

| Average<br>Daily          | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
|---------------------------|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Onsite<br>truck           | < 0.005 | < 0.005 | 0.07 | 0.05 | < 0.005 | < 0.005 | 0.24 | 0.24 | < 0.005 | 0.02    | 0.02    | _ | 21.2  | 21.2  | < 0.005 | < 0.005 | 0.01    | 22.2  |
| Annual                    | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Onsite<br>truck           | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | < 0.005 | < 0.005 | _ | 3.50  | 3.50  | < 0.005 | < 0.005 | < 0.005 | 3.67  |
| Offsite                   | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max) | _       | _       | -    | _    | _       | _       | _    | _    | _       | _       | _       | - | _     | -     | _       | -       | _       | _     |
| Worker                    | 0.55    | 0.50    | 0.34 | 5.81 | 0.00    | 0.00    | 1.31 | 1.31 | 0.00    | 0.31    | 0.31    | _ | 1,372 | 1,372 | 0.02    | 0.05    | 4.47    | 1,392 |
| Vendor                    | 0.06    | 0.04    | 1.11 | 0.55 | 0.01    | 0.01    | 0.24 | 0.26 | 0.01    | 0.07    | 0.08    | _ | 922   | 922   | 0.01    | 0.12    | 2.08    | 961   |
| Hauling                   | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | _ | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Daily,<br>Winter<br>(Max) | _       | _       | _    | _    | _       | _       | _    | _    |         | _       | _       | - | -     | -     | -       | -       | _       | _     |
| Worker                    | 0.52    | 0.46    | 0.44 | 4.79 | 0.00    | 0.00    | 1.31 | 1.31 | 0.00    | 0.31    | 0.31    | _ | 1,240 | 1,240 | 0.03    | 0.05    | 0.12    | 1,257 |
| Vendor                    | 0.05    | 0.04    | 1.19 | 0.57 | 0.01    | 0.01    | 0.24 | 0.26 | 0.01    | 0.07    | 0.08    | _ | 924   | 924   | 0.01    | 0.12    | 0.05    | 961   |
| Hauling                   | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | _ | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Average<br>Daily          | _       | _       | _    | _    | -       | _       | _    | -    | _       | _       | _       | _ | _     | _     | _       | -       | _       | _     |
| Worker                    | 0.09    | 0.08    | 0.07 | 0.84 | 0.00    | 0.00    | 0.23 | 0.23 | 0.00    | 0.05    | 0.05    | _ | 225   | 225   | < 0.005 | 0.01    | 0.34    | 228   |
| Vendor                    | 0.01    | 0.01    | 0.21 | 0.10 | < 0.005 | < 0.005 | 0.04 | 0.05 | < 0.005 | 0.01    | 0.01    | _ | 164   | 164   | < 0.005 | 0.02    | 0.16    | 171   |
| Hauling                   | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | _ | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Annual                    | _       | _       | _    | _    | _       | _       | _    | _    | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Worker                    | 0.02    | 0.01    | 0.01 | 0.15 | 0.00    | 0.00    | 0.04 | 0.04 | 0.00    | 0.01    | 0.01    | _ | 37.3  | 37.3  | < 0.005 | < 0.005 | 0.06    | 37.8  |
| Vendor                    | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | _ | 27.2  | 27.2  | < 0.005 | < 0.005 | 0.03    | 28.3  |
| Hauling                   | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | _ | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |

# 3.19. Generator Only Phase - Construction (2026) - Unmitigated

| Location                      | TOG  | ROG  | NOx  | СО   | SO2  | PM10E | PM10D | PM10T |      | PM2.5D |      | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R    | CO2e  |
|-------------------------------|------|------|------|------|------|-------|-------|-------|------|--------|------|------|-------|-------|------|---------|------|-------|
| Onsite                        | _    | _    | _    | _    | _    | _     | _     | _     | _    | _      | _    | _    | _     | _     | _    | _       | _    | _     |
| Daily,<br>Summer<br>(Max)     | _    | _    | _    | _    | _    | _     | _     | _     | _    | _      | _    | _    | _     | _     | _    | _       | _    | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 3.96 | 3.27 | 32.7 | 36.0 | 0.07 | 0.77  | _     | 0.77  | 0.71 | _      | 0.71 | _    | 5,494 | 5,494 | 0.22 | 0.04    | _    | 5,513 |
| Onsite<br>truck               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00 | 0.00   | 0.00 | -    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Daily,<br>Winter<br>(Max)     | _    | _    | _    | _    | _    | _     | _     | _     | _    | _      | _    | _    | _     | _     | _    | _       | _    | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 3.96 | 3.27 | 32.7 | 36.0 | 0.07 | 0.77  | _     | 0.77  | 0.71 | _      | 0.71 | _    | 5,494 | 5,494 | 0.22 | 0.04    | _    | 5,513 |
| Onsite<br>truck               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00 | 0.00   | 0.00 | _    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Average<br>Daily              | _    | -    | _    | _    | _    | _     | _     | _     | _    | _      | _    | _    | -     | _     | _    | _       | -    | -     |
| Off-Roa<br>d<br>Equipm<br>ent | 2.37 | 1.96 | 19.6 | 21.6 | 0.04 | 0.46  | _     | 0.46  | 0.42 | _      | 0.42 | _    | 3,290 | 3,290 | 0.13 | 0.03    | _    | 3,301 |
| Onsite<br>truck               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00 | 0.00   | 0.00 | _    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Annual                        | _    | _    | _    | _    | _    | _     | _     | _     | _    | _      | _    | _    | _     | _     | _    | _       | _    | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.43 | 0.36 | 3.58 | 3.94 | 0.01 | 0.08  | _     | 0.08  | 0.08 | _      | 0.08 | _    | 545   | 545   | 0.02 | < 0.005 | _    | 547   |
| Onsite truck                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00 | 0.00   | 0.00 | _    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |

| Offsite                   | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    | _    |
|---------------------------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|
| Daily,<br>Summer<br>(Max) | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    | _    |
| Worker                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily,<br>Winter<br>(Max) |      | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    | _    |
| Worker                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average<br>Daily          | _    | _    | _    |      | _    | _    |      | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    | _    |
| Worker                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual                    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    | _    |
| Worker                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

### 3.20. Generator Only Phase - Construction (2026) - Mitigated

| Location     | TOG | ROG | NOx | со | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|--------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite       | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Daily,       | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Summer (Max) |     |     |     |    |     |       |       |       |        |        |        |      |       |      |     |     |   |      |

| Off-Roa<br>d                  | 0.51 | 0.50 | 2.66 | 25.2 | < 0.005 | 0.10 | _    | 0.10 | 0.10 | _    | 0.10 | _ | 20.4 | 20.4 | < 0.005 | < 0.005 | _    | 20.5 |
|-------------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|------|------|---------|---------|------|------|
|                               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Daily,<br>Winter<br>(Max)     | _    | _    | _    | _    | -       | -    | _    | _    | _    | _    | _    | - | _    | _    | -       | _       | -    | _    |
| Off-Roa<br>d<br>Equipm<br>ent | 0.51 | 0.50 | 2.66 | 25.2 | < 0.005 | 0.10 | _    | 0.10 | 0.10 | _    | 0.10 | _ | 20.4 | 20.4 | < 0.005 | < 0.005 | _    | 20.5 |
| Onsite<br>truck               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average<br>Daily              | _    | _    | _    | _    | _       | _    | _    | _    | _    | _    | _    | _ | _    | _    | _       | _       | _    | _    |
| Off-Roa<br>d<br>Equipm<br>ent | 0.30 | 0.30 | 1.59 | 15.1 | < 0.005 | 0.06 | _    | 0.06 | 0.06 | _    | 0.06 | _ | 12.2 | 12.2 | < 0.005 | < 0.005 | _    | 12.3 |
| Onsite<br>truck               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual                        | _    | _    | _    | _    | _       | _    | _    | _    | _    | _    | _    | _ | _    | _    | _       | _       | _    | _    |
| Off-Roa<br>d<br>Equipm<br>ent | 0.06 | 0.05 | 0.29 | 2.75 | < 0.005 | 0.01 | _    | 0.01 | 0.01 | _    | 0.01 | _ | 2.02 | 2.02 | < 0.005 | < 0.005 | _    | 2.03 |
| Onsite<br>truck               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Offsite                       | _    | _    | _    | _    | _       | _    | _    | _    | _    | _    | _    | _ | _    | _    | _       | _       | _    | _    |
| Daily,<br>Summer<br>(Max)     | _    | _    | _    | _    | _       | _    | _    | _    | _    | _    | _    | _ | _    | _    | _       | _       | _    | _    |
| Worker                        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Vendor                        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                       | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

| Daily,<br>Winter<br>(Max) | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    |      |
|---------------------------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|
| Worker                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average<br>Daily          | _    | -    | _    | _    | _    | -    | _    | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    | _    |
| Worker                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual                    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    | _    |
| Worker                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

### 3.21. Generator Only Phase - Construction (2027) - Unmitigated

| Location                      | TOG  | ROG  | NOx  | со   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|-------------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite                        | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _     | _    | _    | _    | _     |
| Daily,<br>Summer<br>(Max)     | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _     | _    | _    | _    | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 3.68 | 3.04 | 31.8 | 35.8 | 0.07 | 0.64  | _     | 0.64  | 0.59   | _      | 0.59   | _    | 5,495 | 5,495 | 0.22 | 0.04 | _    | 5,513 |
| Onsite truck                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | _    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| Daily,<br>Winter<br>(Max)     | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _     | _    | _    | _    | _     |

| Off-Roa<br>Equipmer           | 3.68<br>nt | 3.04 | 31.8 | 35.8 | 0.07    | 0.64 | _    | 0.64 | 0.59 | _    | 0.59 | _ | 5,495 | 5,495 | 0.22 | 0.04    | _    | 5,513 |
|-------------------------------|------------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|------|---------|------|-------|
| Onsite<br>truck               | 0.00       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Average<br>Daily              | _          | _    | _    | _    | _       | -    | _    | _    | _    | _    | _    | - | _     | _     | _    | _       | _    | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.86       | 0.71 | 7.47 | 8.40 | 0.02    | 0.15 | _    | 0.15 | 0.14 | _    | 0.14 | _ | 1,290 | 1,290 | 0.05 | 0.01    | _    | 1,295 |
| Onsite<br>truck               | 0.00       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Annual                        | _          | _    | _    | _    | _       | _    | _    | _    | _    | _    | _    | _ | _     | _     | _    | _       | _    | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.16       | 0.13 | 1.36 | 1.53 | < 0.005 | 0.03 | _    | 0.03 | 0.03 | _    | 0.03 | _ | 214   | 214   | 0.01 | < 0.005 | -    | 214   |
| Onsite truck                  | 0.00       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Offsite                       | _          | _    | _    | _    | _       | _    | _    | _    | _    | _    | _    | _ | _     | _     | _    | _       | _    | _     |
| Daily,<br>Summer<br>(Max)     | _          | _    | _    | -    | _       | -    | _    | _    | _    | _    | _    | _ | _     | _     | _    | _       | _    | _     |
| Worker                        | 0.00       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Vendor                        | 0.00       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Hauling                       | 0.00       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Daily,<br>Winter<br>(Max)     | _          | -    | -    | _    | _       | _    | _    | _    | _    | _    | -    | _ | _     | _     | _    | _       | _    | _     |
| Worker                        | 0.00       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Vendor                        | 0.00       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Hauling                       | 0.00       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Average<br>Daily              | _          | _    | _    | _    | _       | _    | _    | _    | _    | _    | _    | _ | _     | _     | _    | _       | _    | _     |

| Worker  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|
| Vendor  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual  | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    | _    |
| Worker  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

### 3.22. Generator Only Phase - Construction (2027) - Mitigated

|                               |      |      |      |      |         |       |       | <u> </u> |        |        |        |      |       |      |         |         |      |      |
|-------------------------------|------|------|------|------|---------|-------|-------|----------|--------|--------|--------|------|-------|------|---------|---------|------|------|
| Location                      | TOG  | ROG  | NOx  | СО   | SO2     | PM10E | PM10D | PM10T    | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R    | CO2e |
| Onsite                        | _    | _    | _    | _    | _       | _     | _     | _        | _      | _      | _      | _    | _     | _    | _       | _       | _    | _    |
| Daily,<br>Summer<br>(Max)     | _    | _    | _    | _    | _       | _     | _     | _        | _      | _      | _      | _    | _     | _    | _       | _       | _    | _    |
| Off-Roa<br>d<br>Equipm<br>ent | 0.51 | 0.50 | 2.66 | 25.2 | < 0.005 | 0.10  | _     | 0.10     | 0.10   | _      | 0.10   | _    | 20.4  | 20.4 | < 0.005 | < 0.005 | _    | 20.5 |
| Onsite truck                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00     | 0.00   | 0.00   | 0.00   | _    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Daily,<br>Winter<br>(Max)     | _    | _    | _    | _    | _       | _     | _     | _        | _      | _      | _      | _    | _     | _    | _       | _       | _    | _    |
| Off-Roa<br>d<br>Equipm<br>ent | 0.51 | 0.50 | 2.66 | 25.2 | < 0.005 | 0.10  | _     | 0.10     | 0.10   | _      | 0.10   | _    | 20.4  | 20.4 | < 0.005 | < 0.005 | _    | 20.5 |
| Onsite truck                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00     | 0.00   | 0.00   | 0.00   | _    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average<br>Daily              | _    | _    | _    | _    | _       | _     | _     | _        | _      | _      | _      | _    | _     | _    | _       | _       | _    | _    |

| Off-Roa<br>d                  | 0.12 | 0.12 | 0.62 | 5.91 | < 0.005 | 0.02    | _    | 0.02    | 0.02    | _    | 0.02    | _ | 4.79 | 4.79 | < 0.005 | < 0.005 | _    | 4.81 |
|-------------------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|------|------|---------|---------|------|------|
| Onsite<br>truck               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | - | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual                        | _    | _    | _    | _    | _       | _       | _    | _       | _       | _    | _       | _ | _    | _    | _       | _       | _    | _    |
| Off-Roa<br>d<br>Equipm<br>ent | 0.02 | 0.02 | 0.11 | 1.08 | < 0.005 | < 0.005 | _    | < 0.005 | < 0.005 | _    | < 0.005 | _ | 0.79 | 0.79 | < 0.005 | < 0.005 | _    | 0.80 |
| Onsite<br>truck               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Offsite                       | _    | _    | _    | _    | _       | _       | _    | _       | _       | _    | _       | _ | _    | _    | _       | _       | _    | _    |
| Daily,<br>Summer<br>(Max)     | _    | -    | _    | -    | _       | _       | _    | _       | _       | -    | _       | _ | _    | _    | _       | _       | _    | -    |
| Worker                        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Vendor                        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                       | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Daily,<br>Winter<br>(Max)     | _    | -    | _    | _    | _       | _       | _    | _       | _       | -    | _       | _ | _    | _    | _       | -       | -    | -    |
| Worker                        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Vendor                        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                       | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average<br>Daily              | _    | _    | _    | _    | _       | _       | _    | _       | _       | _    | _       | _ | _    | _    | _       | _       | _    | _    |
| Worker                        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Vendor                        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                       | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual                        | _    | _    | _    | _    | _       | _       | _    | _       | _       | _    | _       | _ | _    | _    | _       | _       | _    | _    |
| Worker                        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Vendor                        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|
|         |      |      |      |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |

### 3.23. GW Well Drilling/Testing (2026) - Unmitigated

|                               |         |         |      |      |         |         |       |         | ay for da |        |         |      |       |      |         |         |      |      |
|-------------------------------|---------|---------|------|------|---------|---------|-------|---------|-----------|--------|---------|------|-------|------|---------|---------|------|------|
| Location                      | TOG     | ROG     | NOx  | со   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E    | PM2.5D | PM2.5T  | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R    | CO2e |
| Onsite                        | _       | _       | _    | _    | _       | _       | _     | _       | _         | _      | _       | _    | _     | _    | _       | _       | _    | _    |
| Daily,<br>Summer<br>(Max)     | _       | _       | _    | _    | _       | _       | _     | _       | _         | _      | _       | _    | _     | _    | _       | _       | _    | _    |
| Daily,<br>Winter<br>(Max)     | _       | _       | _    | _    | _       | _       | _     | _       | _         | _      | _       | _    | _     | _    | _       | _       | _    | _    |
| Off-Roa<br>d<br>Equipm<br>ent | 0.37    | 0.31    | 3.02 | 4.87 | 0.01    | 0.09    | _     | 0.09    | 0.09      | _      | 0.09    | _    | 747   | 747  | 0.03    | 0.01    | _    | 749  |
| Onsite<br>truck               | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00    | 0.00      | 0.00   | 0.00    | _    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average<br>Daily              | _       | _       | _    | _    | _       | _       | _     | _       | _         | _      | _       | _    | _     | _    | _       | _       | _    | _    |
| Off-Roa<br>d<br>Equipm<br>ent | 0.03    | 0.02    | 0.21 | 0.33 | < 0.005 | 0.01    | _     | 0.01    | 0.01      | _      | 0.01    | _    | 51.1  | 51.1 | < 0.005 | < 0.005 | _    | 51.3 |
| Onsite<br>truck               | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00    | 0.00      | 0.00   | 0.00    | _    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual                        | _       | _       | _    | _    | _       | _       | _     | _       | _         | _      | _       | _    | _     | _    | _       | _       | _    | _    |
| Off-Roa<br>d<br>Equipm<br>ent | < 0.005 | < 0.005 | 0.04 | 0.06 | < 0.005 | < 0.005 | _     | < 0.005 | < 0.005   | _      | < 0.005 | _    | 8.47  | 8.47 | < 0.005 | < 0.005 | _    | 8.50 |
| Onsite<br>truck               | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00    | 0.00      | 0.00   | 0.00    | _    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Offsite                       | _       | _       | _    | _    | _       | _       | _     | _       | _         | _      | _       | _    | _     | _    | _       | _       | _    | _    |

| Daily,<br>Summer<br>(Max) | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily,<br>Winter<br>(Max) | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Worker                    | 0.03    | 0.03    | 0.03    | 0.27    | 0.00    | 0.00    | 0.07    | 0.07    | 0.00    | 0.02    | 0.02    | _ | 67.4 | 67.4 | < 0.005 | < 0.005 | 0.01    | 68.4 |
| Vendor                    | < 0.005 | < 0.005 | 0.08    | 0.03    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 51.7 | 51.7 | < 0.005 | 0.01    | < 0.005 | 54.2 |
| Hauling                   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Average<br>Daily          | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | -       | _       | _    |
| Worker                    | < 0.005 | < 0.005 | < 0.005 | 0.02    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | _ | 4.71 | 4.71 | < 0.005 | < 0.005 | 0.01    | 4.78 |
| Vendor                    | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 3.54 | 3.54 | < 0.005 | < 0.005 | < 0.005 | 3.71 |
| Hauling                   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual                    | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Worker                    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | _ | 0.78 | 0.78 | < 0.005 | < 0.005 | < 0.005 | 0.79 |
| Vendor                    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 0.59 | 0.59 | < 0.005 | < 0.005 | < 0.005 | 0.61 |
| Hauling                   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

### 3.24. GW Well Drilling/Testing (2026) - Mitigated

|                           |     |     |     | <b>J</b> , |     |       |       |       |        | <i></i> |        |      |       |      |     |     |   |      |
|---------------------------|-----|-----|-----|------------|-----|-------|-------|-------|--------|---------|--------|------|-------|------|-----|-----|---|------|
| Location                  | TOG | ROG | NOx | СО         | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D  | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
| Onsite                    | _   | _   | _   | _          | _   | _     | _     | _     | _      | _       | _      | _    | _     | _    | _   | _   | _ | _    |
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _          | _   | _     |       |       | _      | _       |        | _    |       | _    | _   | _   | _ | _    |
| Daily,<br>Winter<br>(Max) | _   | _   | _   | _          | _   | _     | _     | _     | _      | _       | _      | _    | _     | _    | _   | _   | _ | _    |

| Off-Roa<br>d<br>Equipm        | 0.13    | 0.12    | 1.12    | 5.16    | 0.01    | 0.03    | _       | 0.03    | 0.03    | _       | 0.03    | _ | 747  | 747  | 0.03    | 0.01    | _       | 749  |
|-------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Onsite                        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| truck<br>Average<br>Daily     | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
|                               | 0.01    | 0.01    | 0.08    | 0.35    | < 0.005 | < 0.005 | _       | < 0.005 | < 0.005 | _       | < 0.005 | _ | 51.1 | 51.1 | < 0.005 | < 0.005 | _       | 51.3 |
| Onsite<br>truck               | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual                        | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Off-Roa<br>d<br>Equipm<br>ent | < 0.005 | < 0.005 | 0.01    | 0.06    | < 0.005 | < 0.005 | _       | < 0.005 | < 0.005 | _       | < 0.005 | _ | 8.47 | 8.47 | < 0.005 | < 0.005 | _       | 8.50 |
| Onsite<br>truck               | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | - | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Offsite                       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Daily,<br>Summer<br>(Max)     | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | -    |
| Daily,<br>Winter<br>(Max)     | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Worker                        | 0.03    | 0.03    | 0.03    | 0.27    | 0.00    | 0.00    | 0.07    | 0.07    | 0.00    | 0.02    | 0.02    | _ | 67.4 | 67.4 | < 0.005 | < 0.005 | 0.01    | 68.4 |
| Vendor                        | < 0.005 | < 0.005 | 0.08    | 0.03    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 51.7 | 51.7 | < 0.005 | 0.01    | < 0.005 | 54.2 |
| Hauling                       | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Average<br>Daily              | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Worker                        | < 0.005 | < 0.005 | < 0.005 | 0.02    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | _ | 4.71 | 4.71 | < 0.005 | < 0.005 | 0.01    | 4.78 |
| Vendor                        | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 3.54 | 3.54 | < 0.005 | < 0.005 | < 0.005 | 3.71 |

| Hauling | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Annual  | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Worker  | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | _ | 0.78 | 0.78 | < 0.005 | < 0.005 | < 0.005 | 0.79 |
| Vendor  | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 0.59 | 0.59 | < 0.005 | < 0.005 | < 0.005 | 0.61 |
| Hauling | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

### 3.25. GW Well Equipment Installation (2026) - Unmitigated

| Location                      |      | ROG  | NOx  | co       | SO2     | PM10E   | PM10D | PM10T   |         | PM2.5D |         | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R    | CO2e |
|-------------------------------|------|------|------|----------|---------|---------|-------|---------|---------|--------|---------|------|-------|------|---------|---------|------|------|
| Onsite                        | _    | _    | _    | _        | _       | _       | _     | _       | _       | _      | _       | _    | _     | _    | _       | _       | _    | _    |
| Daily,<br>Summer<br>(Max)     | _    | _    | _    | _        | -       | _       | _     | _       | _       | _      | _       | _    | -     | _    | _       | _       | _    | -    |
| Daily,<br>Winter<br>(Max)     | _    | _    | _    | _        | _       | _       | _     | _       | _       | _      | _       | _    | _     | _    | _       | _       | _    | _    |
| Off-Roa<br>d<br>Equipm<br>ent | 0.26 | 0.22 | 1.82 | 2.49     | < 0.005 | 0.06    | _     | 0.06    | 0.06    | _      | 0.06    | _    | 362   | 362  | 0.01    | < 0.005 | _    | 364  |
| Onsite<br>truck               | 0.00 | 0.00 | 0.00 | 0.00     | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | _    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average<br>Daily              | _    | _    | _    | _        | _       | _       | _     | _       | _       | _      | _       | _    | _     | _    | _       | _       | _    | _    |
| Off-Roa<br>d<br>Equipm<br>ent | 0.01 | 0.01 | 0.08 | 0.12     | < 0.005 | < 0.005 | _     | < 0.005 | < 0.005 | _      | < 0.005 | _    | 16.9  | 16.9 | < 0.005 | < 0.005 | _    | 16.9 |
| Onsite<br>truck               | 0.00 | 0.00 | 0.00 | 0.00     | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | _    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual                        | _    | _    | _    | <u> </u> | _       | _       | _     | _       | _       | _      | _       | _    | _     | _    | _       | _       | _    | _    |

| Off-Roa<br>d<br>Equipm<br>ent | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | _       | < 0.005 | < 0.005 | _       | < 0.005 | _ | 2.79 | 2.79 | < 0.005 | < 0.005 | _       | 2.80 |
|-------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Onsite<br>truck               | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Offsite                       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Daily,<br>Summer<br>(Max)     | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Daily,<br>Winter<br>(Max)     | _       | _       | -       | -       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | -       | _       | _       | _    |
| Worker                        | 0.03    | 0.03    | 0.03    | 0.27    | 0.00    | 0.00    | 0.07    | 0.07    | 0.00    | 0.02    | 0.02    | _ | 67.4 | 67.4 | < 0.005 | < 0.005 | 0.01    | 68.4 |
| Vendor                        | < 0.005 | < 0.005 | 0.04    | 0.02    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 25.9 | 25.9 | < 0.005 | < 0.005 | < 0.005 | 27.1 |
| Hauling                       | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Average<br>Daily              | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Worker                        | < 0.005 | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | _ | 3.20 | 3.20 | < 0.005 | < 0.005 | 0.01    | 3.25 |
| Vendor                        | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 1.20 | 1.20 | < 0.005 | < 0.005 | < 0.005 | 1.26 |
| Hauling                       | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual                        | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Worker                        | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | _ | 0.53 | 0.53 | < 0.005 | < 0.005 | < 0.005 | 0.54 |
| Vendor                        | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 0.20 | 0.20 | < 0.005 | < 0.005 | < 0.005 | 0.21 |
| Hauling                       | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

### 3.26. GW Well Equipment Installation (2026) - Mitigated

| Location | TOG | ROG | NOx | со | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|----------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite   | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

| Daily,<br>Summer<br>(Max)     | _       | _       | _    | _    |         | _       | _    | _       | _       | _       | _       | _ |      | _    | _       |         | _       | _    |
|-------------------------------|---------|---------|------|------|---------|---------|------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily,<br>Winter<br>(Max)     | _       | _       | _    | _    | _       | _       | _    | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Off-Roa<br>d<br>Equipm<br>ent | 0.09    | 0.08    | 0.93 | 2.45 | < 0.005 | 0.02    | _    | 0.02    | 0.02    | _       | 0.02    | _ | 362  | 362  | 0.01    | < 0.005 | _       | 364  |
| Onsite<br>truck               | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Average<br>Daily              | _       | _       | _    | _    | _       | _       | _    | _       | _       | _       | _       | _ | _    | -    | _       | _       | _       | _    |
| Off-Roa<br>d<br>Equipm<br>ent | < 0.005 | < 0.005 | 0.04 | 0.11 | < 0.005 | < 0.005 | _    | < 0.005 | < 0.005 | _       | < 0.005 | _ | 16.9 | 16.9 | < 0.005 | < 0.005 | _       | 16.9 |
| Onsite<br>truck               | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual                        | _       | _       | _    | _    | _       | _       | _    | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Off-Roa<br>d<br>Equipm<br>ent | < 0.005 | < 0.005 | 0.01 | 0.02 | < 0.005 | < 0.005 | _    | < 0.005 | < 0.005 | _       | < 0.005 | _ | 2.79 | 2.79 | < 0.005 | < 0.005 | _       | 2.80 |
| Onsite<br>truck               | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Offsite                       | _       | _       | _    | _    | _       | _       | _    | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Daily,<br>Summer<br>(Max)     | _       | _       | _    | _    | _       | _       | _    | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Daily,<br>Winter<br>(Max)     | _       | _       | _    | _    | _       | _       | _    | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Worker                        | 0.03    | 0.03    | 0.03 | 0.27 | 0.00    | 0.00    | 0.07 | 0.07    | 0.00    | 0.02    | 0.02    | _ | 67.4 | 67.4 | < 0.005 | < 0.005 | 0.01    | 68.4 |
| Vendor                        | < 0.005 | < 0.005 | 0.04 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 25.9 | 25.9 | < 0.005 | < 0.005 | < 0.005 | 27.1 |

| Hauling          | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Average<br>Daily | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Worker           | < 0.005 | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | _ | 3.20 | 3.20 | < 0.005 | < 0.005 | 0.01    | 3.25 |
| Vendor           | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 1.20 | 1.20 | < 0.005 | < 0.005 | < 0.005 | 1.26 |
| Hauling          | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual           | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Worker           | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | _ | 0.53 | 0.53 | < 0.005 | < 0.005 | < 0.005 | 0.54 |
| Vendor           | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 0.20 | 0.20 | < 0.005 | < 0.005 | < 0.005 | 0.21 |
| Hauling          | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | _ | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

# 3.27. Telecom (2026) - Unmitigated

|                           |      |      |      |      |      |          |       | `     |        | <i>J</i> , | <u> </u> |      |       |      |      |      |      |      |
|---------------------------|------|------|------|------|------|----------|-------|-------|--------|------------|----------|------|-------|------|------|------|------|------|
| Location                  | TOG  | ROG  | NOx  | СО   | SO2  | PM10E    | PM10D | PM10T | PM2.5E | PM2.5D     | PM2.5T   | BCO2 | NBCO2 | СО2Т | CH4  | N2O  | R    | CO2e |
| Onsite                    | _    | _    | _    | _    | _    | <u> </u> | _     | _     | _      | _          | _        | _    | _     | _    | _    | _    | _    | _    |
| Daily,<br>Summer<br>(Max) | _    | _    | _    | _    | _    | _        | _     | _     | _      | _          | _        | _    | _     | _    | _    | _    | _    | _    |
| Daily,<br>Winter<br>(Max) | _    | _    | _    | _    | _    | _        | _     | _     | _      | _          | _        | _    | _     | _    | _    | _    | _    | _    |
| Onsite<br>truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00  | 0.00  | 0.00   | 0.00       | 0.00     | _    | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average<br>Daily          | _    | _    | _    | _    | _    | _        | _     | _     | _      | _          | _        | _    | _     | _    | _    | _    | _    | _    |
| Onsite<br>truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00  | 0.00  | 0.00   | 0.00       | 0.00     | _    | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual                    | _    | _    | _    | _    | -    | _        | _     | _     | _      | _          | _        | _    | _     | _    | _    | _    | _    | _    |
| Onsite<br>truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00  | 0.00  | 0.00   | 0.00       | 0.00     | _    | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite                   | _    | _    | _    | _    | _    |          | _     | _     | _      | _          | _        | _    | _     | _    | _    | _    | _    | _    |

| Daily,<br>Summer<br>(Max) | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | - | _    | _    | _        | _    | _    | _    |
|---------------------------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|----------|------|------|------|
| Daily,<br>Winter<br>(Max) | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | _    | _        | _    | _    | _    |
| Worker                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00 |
| Vendor                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00 |
| Hauling                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00 |
| Average<br>Daily          | _    | -    | _    | _    | _    | _    | -    | _    | _    | _    | _    | _ | _    | -    | _        | _    | _    | -    |
| Worker                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00 |
| Vendor                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00 |
| Hauling                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00 |
| Annual                    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | _    | <u> </u> | _    | _    | _    |
| Worker                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00 |
| Vendor                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00 |
| Hauling                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00 |

# 3.28. Telecom (2026) - Mitigated

| Location                  | TOG  | ROG  | NOx  | СО   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R    | CO2e |
|---------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|------|------|
| Onsite                    | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _    | _    |
| Daily,<br>Summer<br>(Max) | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _    | _    |
| Daily,<br>Winter<br>(Max) | _    | _    | _    | _    | _    | _     | _     | _     |        | _      | _      | _    | _     | _    | _    | _    | _    | _    |
| Onsite truck              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | _    | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Average<br>Daily          | _    | _    | _    | _    | _    | _    | _    | _    |      | _    | _    | _ | _    | _    | _    | _    | _    | _    |
|---------------------------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|
| Onsite<br>truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual                    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    | _    |
| Onsite<br>truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite                   | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    | _    |
| Daily,<br>Summer<br>(Max) | _    | _    | -    | -    | _    | _    | -    | _    | _    | _    | -    | - | _    | -    | -    | -    | -    | -    |
| Daily,<br>Winter<br>(Max) | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | -    | _    | _    | _    | _    |
| Worker                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average<br>Daily          | -    | _    | _    | _    | _    | _    | _    | -    | _    | -    | _    | _ | _    | _    | _    | _    | _    | _    |
| Worker                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual                    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    | _    |
| Worker                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

# 3.29. Telecom (2027) - Unmitigated

| Location | TOG | ROG | NOx | СО | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|----------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite   | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

| Daily,<br>Summer<br>(Max) | _    | _    | _    | _    | _    | -    | _    | _    | _    | _    | _    | _ | _    | _    | -    | _    | _    | _    |
|---------------------------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|
| Daily,<br>Winter<br>(Max) | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | - | _    | _    | _    | _    | _    | _    |
| Onsite<br>truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average<br>Daily          | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    | _    |
| Onsite<br>truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual                    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    | _    |
| Onsite<br>truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite                   | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    | _    |
| Daily,<br>Summer<br>(Max) | _    | _    | _    | -    | _    | _    | _    | _    | _    | _    | _    | - |      | _    | -    | _    | _    | -    |
| Daily,<br>Winter<br>(Max) | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | - | _    | _    | _    | _    | _    | _    |
| Worker                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average<br>Daily          | _    | _    | _    | _    | -    | _    | _    | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    | _    |
| Worker                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual                    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    | _    |
| Worker                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|
| riading | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|         |      |      |      |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |

# 3.30. Telecom (2027) - Mitigated

| Location                  | TOG  | ROG  | NOx  | со   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R    | CO2e |
|---------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|------|------|
| Onsite                    | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _    | _    |
| Daily,<br>Summer<br>(Max) | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _    | _    |
| Daily,<br>Winter<br>(Max) | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _    | _    |
| Onsite<br>truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | _    | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average<br>Daily          | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _    | _    |
| Onsite<br>truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | _    | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual                    | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _    | _    |
| Onsite<br>truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | _    | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite                   | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _    | _    |
| Daily,<br>Summer<br>(Max) | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _    | _    |
| Daily,<br>Winter<br>(Max) | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _    | _    |
| Worker                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | _    | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | _    | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | _    | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average<br>Daily          | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _    | _    |

| Worker  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|
| Vendor  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual  | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _    | _ | _    | _    | _    | _    | _    | _    |
| Worker  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vendor  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

# 3.31. Onsite Water Tank (2026) - Unmitigated

| Location                      | TOG     | ROG     | NOx  | со   | SO2     | PM10E   | PM10D | PM10T | PM2.5E  | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R       | CO2e  |
|-------------------------------|---------|---------|------|------|---------|---------|-------|-------|---------|--------|--------|------|-------|-------|---------|---------|---------|-------|
| Onsite                        | _       | _       | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max)     | _       | _       | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _       | _       | _     |
| Daily,<br>Winter<br>(Max)     | _       | _       | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 2.41    | 2.02    | 15.2 | 16.9 | 0.05    | 0.56    | _     | 0.56  | 0.52    | _      | 0.52   | _    | 4,908 | 4,908 | 0.20    | 0.04    | _       | 4,924 |
| Onsite truck                  | < 0.005 | < 0.005 | 0.09 | 0.05 | < 0.005 | < 0.005 | 7.36  | 7.36  | < 0.005 | 0.73   | 0.74   | _    | 24.4  | 24.4  | < 0.005 | < 0.005 | < 0.005 | 25.6  |
| Average<br>Daily              | _       | _       | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.24    | 0.21    | 1.55 | 1.72 | < 0.005 | 0.06    | _     | 0.06  | 0.05    | _      | 0.05   | _    | 499   | 499   | 0.02    | < 0.005 | _       | 501   |
| Onsite truck                  | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | 0.68  | 0.68  | < 0.005 | 0.07   | 0.07   | _    | 2.47  | 2.47  | < 0.005 | < 0.005 | < 0.005 | 2.59  |
| Annual                        | _       | _       | _    | _    | _       | _       | _     | _     | _       | _      | _      | _    | _     | _     | _       | _       | _       | _     |

| Off-Roa<br>Equipme        | 0.04<br>nt | 0.04    | 0.28    | 0.31    | < 0.005 | 0.01    | _       | 0.01    | 0.01    | _       | 0.01    | _ | 82.7 | 82.7 | < 0.005 | < 0.005 | _       | 83.0 |
|---------------------------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Onsite<br>truck           | < 0.005    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.12    | 0.12    | < 0.005 | 0.01    | 0.01    | _ | 0.41 | 0.41 | < 0.005 | < 0.005 | < 0.005 | 0.43 |
| Offsite                   | _          | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Daily,<br>Summer<br>(Max) | _          | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Daily,<br>Winter<br>(Max) | _          | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Worker                    | 0.19       | 0.17    | 0.17    | 1.78    | 0.00    | 0.00    | 0.45    | 0.45    | 0.00    | 0.11    | 0.11    | _ | 438  | 438  | 0.01    | 0.02    | 0.04    | 444  |
| Vendor                    | 0.01       | < 0.005 | 0.17    | 0.06    | < 0.005 | < 0.005 | 0.03    | 0.03    | < 0.005 | 0.01    | 0.01    | _ | 103  | 103  | < 0.005 | 0.02    | 0.01    | 108  |
| Hauling                   | 0.02       | 0.01    | 0.68    | 0.16    | < 0.005 | 0.01    | 0.15    | 0.16    | 0.01    | 0.04    | 0.05    | _ | 540  | 540  | < 0.005 | 0.08    | 0.03    | 565  |
| Average<br>Daily          | _          | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Worker                    | 0.02       | 0.02    | 0.02    | 0.18    | 0.00    | 0.00    | 0.05    | 0.05    | 0.00    | 0.01    | 0.01    | _ | 45.5 | 45.5 | < 0.005 | < 0.005 | 0.08    | 46.2 |
| Vendor                    | < 0.005    | < 0.005 | 0.02    | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 10.5 | 10.5 | < 0.005 | < 0.005 | 0.01    | 11.0 |
| Hauling                   | < 0.005    | < 0.005 | 0.07    | 0.02    | < 0.005 | < 0.005 | 0.01    | 0.02    | < 0.005 | < 0.005 | 0.01    | _ | 54.9 | 54.9 | < 0.005 | 0.01    | 0.05    | 57.5 |
| Annual                    | _          | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | -       | _       | _       | _    |
| Worker                    | < 0.005    | < 0.005 | < 0.005 | 0.03    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | _ | 7.53 | 7.53 | < 0.005 | < 0.005 | 0.01    | 7.64 |
| Vendor                    | < 0.005    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 1.74 | 1.74 | < 0.005 | < 0.005 | < 0.005 | 1.82 |
| Hauling                   | < 0.005    | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 9.09 | 9.09 | < 0.005 | < 0.005 | 0.01    | 9.52 |

### 3.32. Onsite Water Tank (2026) - Mitigated

| Location                  | TOG | ROG | NOx | СО | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite                    | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

| Daily,<br>Winter<br>(Max)     | _       | _       | _       | _       | _       | _       | _    | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
|-------------------------------|---------|---------|---------|---------|---------|---------|------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Off-Roa<br>d<br>Equipm<br>ent | 0.61    | 0.59    | 4.76    | 25.8    | 0.05    | 0.13    | _    | 0.13    | 0.12    | _       | 0.12    | _ | 4,908 | 4,908 | 0.20    | 0.04    | _       | 4,924 |
| Onsite<br>truck               | < 0.005 | < 0.005 | 0.09    | 0.05    | < 0.005 | < 0.005 | 0.30 | 0.30    | < 0.005 | 0.03    | 0.03    | _ | 24.4  | 24.4  | < 0.005 | < 0.005 | < 0.005 | 25.6  |
| Average<br>Daily              | _       | _       | _       | _       | _       | _       | _    | _       | _       | _       | _       | - | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.06    | 0.06    | 0.48    | 2.63    | < 0.005 | 0.01    | _    | 0.01    | 0.01    | _       | 0.01    | _ | 499   | 499   | 0.02    | < 0.005 | _       | 501   |
| Onsite<br>truck               | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | 0.03 | 0.03    | < 0.005 | < 0.005 | < 0.005 | - | 2.47  | 2.47  | < 0.005 | < 0.005 | < 0.005 | 2.59  |
| Annual                        | _       | _       | _       | _       | _       | _       | _    | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.01    | 0.01    | 0.09    | 0.48    | < 0.005 | < 0.005 | _    | < 0.005 | < 0.005 | _       | < 0.005 | _ | 82.7  | 82.7  | < 0.005 | < 0.005 | _       | 83.0  |
| Onsite<br>truck               | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01    | < 0.005 | < 0.005 | < 0.005 | - | 0.41  | 0.41  | < 0.005 | < 0.005 | < 0.005 | 0.43  |
| Offsite                       | _       | _       | _       | _       | _       | _       | _    | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max)     | _       | _       | -       | _       | -       | _       | _    | _       | _       | -       | _       | - | _     | -     | _       | -       | _       | _     |
| Daily,<br>Winter<br>(Max)     | _       | _       | _       | _       | _       | _       | _    | _       | _       | _       | _       | _ | _     | -     | _       | _       | _       | _     |
| Worker                        | 0.19    | 0.17    | 0.17    | 1.78    | 0.00    | 0.00    | 0.45 | 0.45    | 0.00    | 0.11    | 0.11    | _ | 438   | 438   | 0.01    | 0.02    | 0.04    | 444   |
| Vendor                        | 0.01    | < 0.005 | 0.17    | 0.06    | < 0.005 | < 0.005 | 0.03 | 0.03    | < 0.005 | 0.01    | 0.01    | _ | 103   | 103   | < 0.005 | 0.02    | 0.01    | 108   |
| Hauling                       | 0.02    | 0.01    | 0.68    | 0.16    | < 0.005 | 0.01    | 0.15 | 0.16    | 0.01    | 0.04    | 0.05    | _ | 540   | 540   | < 0.005 | 0.08    | 0.03    | 565   |
| Average<br>Daily              | _       | _       | _       | _       | _       | _       | _    | _       | _       | -       | _       | _ | _     | _     | _       | _       | _       | _     |

| Worker  | 0.02    | 0.02    | 0.02    | 0.18    | 0.00    | 0.00    | 0.05    | 0.05    | 0.00    | 0.01    | 0.01    | _ | 45.5 | 45.5 | < 0.005 | < 0.005 | 0.08    | 46.2 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Vendor  | < 0.005 | < 0.005 | 0.02    | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 10.5 | 10.5 | < 0.005 | < 0.005 | 0.01    | 11.0 |
| Hauling | < 0.005 | < 0.005 | 0.07    | 0.02    | < 0.005 | < 0.005 | 0.01    | 0.02    | < 0.005 | < 0.005 | 0.01    | _ | 54.9 | 54.9 | < 0.005 | 0.01    | 0.05    | 57.5 |
| Annual  | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Worker  | < 0.005 | < 0.005 | < 0.005 | 0.03    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | _ | 7.53 | 7.53 | < 0.005 | < 0.005 | 0.01    | 7.64 |
| Vendor  | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 1.74 | 1.74 | < 0.005 | < 0.005 | < 0.005 | 1.82 |
| Hauling | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 9.09 | 9.09 | < 0.005 | < 0.005 | 0.01    | 9.52 |

# 3.33. Onsite Water Tank (2027) - Unmitigated

|                               |         | (       |      | <b>y</b> , |         |         |       | (     | .,      | ··· <b>J</b> , ·····. | ,      |      |       |       |         |         |         |       |
|-------------------------------|---------|---------|------|------------|---------|---------|-------|-------|---------|-----------------------|--------|------|-------|-------|---------|---------|---------|-------|
| Location                      | TOG     | ROG     | NOx  | со         | SO2     | PM10E   | PM10D | PM10T | PM2.5E  | PM2.5D                | PM2.5T | всо2 | NBCO2 | CO2T  | CH4     | N2O     | R       | CO2e  |
| Onsite                        | _       | _       | _    | _          | _       | _       | _     | _     | _       | _                     | _      | _    | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max)     | _       | _       | _    | _          | _       | _       | _     | _     | _       | _                     | _      | _    | _     | _     | _       | _       | _       | _     |
| Daily,<br>Winter<br>(Max)     |         | _       | _    | _          | _       | _       | _     | _     | _       | _                     | _      | _    | _     | _     | _       | _       | _       |       |
| Off-Roa<br>d<br>Equipm<br>ent | 2.37    | 1.99    | 14.6 | 16.9       | 0.05    | 0.53    | _     | 0.53  | 0.48    | _                     | 0.48   | _    | 4,907 | 4,907 | 0.20    | 0.04    | _       | 4,924 |
| Onsite<br>truck               | < 0.005 | < 0.005 | 0.08 | 0.05       | < 0.005 | < 0.005 | 7.36  | 7.36  | < 0.005 | 0.73                  | 0.74   | _    | 23.9  | 23.9  | < 0.005 | < 0.005 | < 0.005 | 25.0  |
| Average<br>Daily              | _       | _       | _    | _          | _       | _       | _     | _     | _       | _                     | _      | _    | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.22    | 0.18    | 1.34 | 1.55       | < 0.005 | 0.05    | _     | 0.05  | 0.04    | _                     | 0.04   | _    | 451   | 451   | 0.02    | < 0.005 | _       | 453   |
| Onsite<br>truck               | < 0.005 | < 0.005 | 0.01 | < 0.005    | < 0.005 | < 0.005 | 0.61  | 0.61  | < 0.005 | 0.06                  | 0.06   | _    | 2.19  | 2.19  | < 0.005 | < 0.005 | < 0.005 | 2.29  |
| Annual                        | _       | _       |      | _          | _       |         | _     | _     | _       | _                     |        | _    | _     |       | _       | _       | _       | _     |

| Off-Roa<br>Equipme        | 0.04<br>nt | 0.03    | 0.25    | 0.28    | < 0.005 | 0.01    | _       | 0.01    | 0.01    | _       | 0.01    | _ | 74.7     | 74.7 | < 0.005 | < 0.005 | _       | 75.0 |
|---------------------------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|----------|------|---------|---------|---------|------|
| Onsite<br>truck           | < 0.005    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.11    | 0.11    | < 0.005 | 0.01    | 0.01    | _ | 0.36     | 0.36 | < 0.005 | < 0.005 | < 0.005 | 0.38 |
| Offsite                   | _          | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _        | _    | _       | _       | _       | _    |
| Daily,<br>Summer<br>(Max) | _          | _       | _       | -       | -       | _       | _       | _       | _       | _       | _       | _ | _        | _    | _       | _       | _       | _    |
| Daily,<br>Winter<br>(Max) | _          | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _        | _    | _       | _       | _       | _    |
| Worker                    | 0.18       | 0.16    | 0.15    | 1.66    | 0.00    | 0.00    | 0.45    | 0.45    | 0.00    | 0.11    | 0.11    | _ | 430      | 430  | 0.01    | 0.02    | 0.04    | 436  |
| Vendor                    | 0.01       | < 0.005 | 0.16    | 0.06    | < 0.005 | < 0.005 | 0.03    | 0.03    | < 0.005 | 0.01    | 0.01    | _ | 101      | 101  | < 0.005 | 0.02    | < 0.005 | 106  |
| Hauling                   | 0.02       | 0.01    | 0.66    | 0.15    | < 0.005 | 0.01    | 0.15    | 0.16    | 0.01    | 0.04    | 0.05    | _ | 527      | 527  | < 0.005 | 0.08    | 0.03    | 552  |
| Average<br>Daily          | _          | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _        | _    | _       | _       | _       | _    |
| Worker                    | 0.02       | 0.01    | 0.01    | 0.15    | 0.00    | 0.00    | 0.04    | 0.04    | 0.00    | 0.01    | 0.01    | _ | 40.3     | 40.3 | < 0.005 | < 0.005 | 0.06    | 40.9 |
| Vendor                    | < 0.005    | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 9.28     | 9.28 | < 0.005 | < 0.005 | 0.01    | 9.73 |
| Hauling                   | < 0.005    | < 0.005 | 0.06    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 48.4     | 48.4 | < 0.005 | 0.01    | 0.04    | 50.8 |
| Annual                    | _          | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | <u> </u> | _    | _       | _       | _       | _    |
| Worker                    | < 0.005    | < 0.005 | < 0.005 | 0.03    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | _ | 6.68     | 6.68 | < 0.005 | < 0.005 | 0.01    | 6.77 |
| Vendor                    | < 0.005    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 1.54     | 1.54 | < 0.005 | < 0.005 | < 0.005 | 1.61 |
| Hauling                   | < 0.005    | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 8.02     | 8.02 | < 0.005 | < 0.005 | 0.01    | 8.41 |

### 3.34. Onsite Water Tank (2027) - Mitigated

| Location                  | TOG | ROG | NOx | СО | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite                    | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

| Daily,<br>Winter<br>(Max)     | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
|-------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Off-Roa<br>d<br>Equipm<br>ent | 0.61    | 0.59    | 4.76    | 25.8    | 0.05    | 0.13    | _       | 0.13    | 0.12    | _       | 0.12    | _ | 4,907 | 4,907 | 0.20    | 0.04    | _       | 4,924 |
| Onsite<br>truck               | < 0.005 | < 0.005 | 0.08    | 0.05    | < 0.005 | < 0.005 | 0.30    | 0.30    | < 0.005 | 0.03    | 0.03    | _ | 23.9  | 23.9  | < 0.005 | < 0.005 | < 0.005 | 25.0  |
| Average<br>Daily              | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.06    | 0.05    | 0.44    | 2.38    | < 0.005 | 0.01    | _       | 0.01    | 0.01    | _       | 0.01    | _ | 451   | 451   | 0.02    | < 0.005 | _       | 453   |
| Onsite<br>truck               | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | < 0.005 | _ | 2.19  | 2.19  | < 0.005 | < 0.005 | < 0.005 | 2.29  |
| Annual                        | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Off-Roa<br>d<br>Equipm<br>ent | 0.01    | 0.01    | 0.08    | 0.43    | < 0.005 | < 0.005 | _       | < 0.005 | < 0.005 | _       | < 0.005 | _ | 74.7  | 74.7  | < 0.005 | < 0.005 | -       | 75.0  |
| Onsite<br>truck               | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 0.36  | 0.36  | < 0.005 | < 0.005 | < 0.005 | 0.38  |
| Offsite                       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _     | _     | _       | _       | _       | _     |
| Daily,<br>Summer<br>(Max)     | _       | _       | -       | -       | -       | _       | _       | _       | _       | _       | _       | - | _     | -     | -       | _       | _       | -     |
| Daily,<br>Winter<br>(Max)     | _       | _       | -       | -       | -       | _       | _       | _       | _       | _       | _       | - | _     | -     | _       | _       | _       | _     |
| Worker                        | 0.18    | 0.16    | 0.15    | 1.66    | 0.00    | 0.00    | 0.45    | 0.45    | 0.00    | 0.11    | 0.11    | _ | 430   | 430   | 0.01    | 0.02    | 0.04    | 436   |
| Vendor                        | 0.01    | < 0.005 | 0.16    | 0.06    | < 0.005 | < 0.005 | 0.03    | 0.03    | < 0.005 | 0.01    | 0.01    | _ | 101   | 101   | < 0.005 | 0.02    | < 0.005 | 106   |
| Hauling                       | 0.02    | 0.01    | 0.66    | 0.15    | < 0.005 | 0.01    | 0.15    | 0.16    | 0.01    | 0.04    | 0.05    | _ | 527   | 527   | < 0.005 | 0.08    | 0.03    | 552   |
| Average<br>Daily              | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | -     | _     | _       | _       | -       | _     |

| Worker  | 0.02    | 0.01    | 0.01    | 0.15    | 0.00    | 0.00    | 0.04    | 0.04    | 0.00    | 0.01    | 0.01    | _ | 40.3 | 40.3 | < 0.005 | < 0.005 | 0.06    | 40.9 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Vendor  | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 9.28 | 9.28 | < 0.005 | < 0.005 | 0.01    | 9.73 |
| Hauling | < 0.005 | < 0.005 | 0.06    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | _ | 48.4 | 48.4 | < 0.005 | 0.01    | 0.04    | 50.8 |
| Annual  | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _       | _ | _    | _    | _       | _       | _       | _    |
| Worker  | < 0.005 | < 0.005 | < 0.005 | 0.03    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | _ | 6.68 | 6.68 | < 0.005 | < 0.005 | 0.01    | 6.77 |
| Vendor  | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 1.54 | 1.54 | < 0.005 | < 0.005 | < 0.005 | 1.61 |
| Hauling | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | _ | 8.02 | 8.02 | < 0.005 | < 0.005 | 0.01    | 8.41 |

# 4. Operations Emissions Details

#### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

#### 4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

#### 4.2. Energy

#### 4.2.1. Electricity Emissions By Land Use - Unmitigated

| Land<br>Use                   | TOG | ROG | NOx | СО | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | СО2Т | CH4  | N2O  | R | CO2e |
|-------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily,<br>Summer<br>(Max)     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |

| Daily,<br>Winter<br>(Max)     | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _    | _    | _    | _    | _ | _    |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---|------|
| User<br>Defined<br>Industrial | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Annual                        | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _    | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |

### 4.2.2. Electricity Emissions By Land Use - Mitigated

| Land<br>Use                   | TOG | ROG | NOx | СО | SO2 |   |   |   |   | PM2.5D |   |   | NBCO2 | СО2Т | CH4  | N2O  | R | CO2e |
|-------------------------------|-----|-----|-----|----|-----|---|---|---|---|--------|---|---|-------|------|------|------|---|------|
| Daily,<br>Summer<br>(Max)     | _   | _   | _   | _  | _   | _ | _ | _ | _ | _      | _ | _ | _     | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | _   | _   | _   | _  | _   | _ | _ | _ | _ | _      | _ | _ | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | _   | _   | _   | _  | _   | _ | _ | _ | _ | _      | _ | _ | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Daily,<br>Winter<br>(Max)     | _   | _   | _   | _  | _   | _ | _ | _ | _ | _      | _ | _ | _     | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | _   | _   | _   | _  | _   | _ | _ | _ | _ | _      | _ | _ | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | _   | _   | _   | _  | _   | _ | _ | _ | _ | _      | _ | _ | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Annual                        | _   | _   | _   | _  | _   | _ | _ | _ | _ | _      | _ | _ | _     | _    | _    | _    | _ | _    |

| User<br>Defined<br>Industrial | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---|------|
| Total                         | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land<br>Use                   | TOG  | ROG  | NOx  | СО   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|-------------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily,<br>Summer<br>(Max)     | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | - | _    |
| User<br>Defined<br>Industrial | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | _     | 0.00  | 0.00   | _      | 0.00   | _    | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | _     | 0.00  | 0.00   | _      | 0.00   | _    | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Daily,<br>Winter<br>(Max)     | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | _     | 0.00  | 0.00   | _      | 0.00   | _    | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | _     | 0.00  | 0.00   | _      | 0.00   | _    | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Annual                        | _    | _    | _    | _    | _    | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | _     | 0.00  | 0.00   | _      | 0.00   | _    | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | _     | 0.00  | 0.00   | _      | 0.00   | _    | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |

#### 4.2.4. Natural Gas Emissions By Land Use - Mitigated

| Land | TOG | ROG | NOx | СО | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Use  |     |     |     |    |     |       |       |       |        |        |        |      |       |      |     |     |   |      |

| Daily,<br>Summer<br>(Max)     | _    | _    | _    | _    | _    |      | _ | _    | _    | _ | _    | _ | _    | _    | _    | _    | _ | _    |
|-------------------------------|------|------|------|------|------|------|---|------|------|---|------|---|------|------|------|------|---|------|
| User<br>Defined<br>Industrial | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | _ | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | _ | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Daily,<br>Winter<br>(Max)     | _    | _    | _    | _    | _    | _    | _ | _    | _    | _ | _    | _ | _    | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | _ | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | _ | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Annual                        | _    | _    | _    | _    | _    | _    | _ | _    | _    | _ | _    | _ | _    | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | _ | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | _ | 0.00 | _ | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |

### 4.3. Area Emissions by Source

### 4.3.1. Unmitigated

|                              |      |      |     | _ · | •   |       |       |       |        | _ , ,  |        |      |       |      |     |     |   |      |
|------------------------------|------|------|-----|-----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Source                       | TOG  | ROG  | NOx | со  | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
| Daily,<br>Summer<br>(Max)    | _    | _    | _   | _   | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Consum<br>er<br>Product<br>s | 1.92 | 1.92 | _   | _   | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

| Architect<br>ural<br>Coating<br>s | 0.14 | 0.14 |         | _    | _       | _       | _ | _       | _       | _ | _       | _ | _    | _    |         | _       | _ | _    |
|-----------------------------------|------|------|---------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Landsca<br>pe<br>Equipm<br>ent    | 0.69 | 0.64 | 0.03    | 3.89 | < 0.005 | 0.01    | _ | 0.01    | 0.01    | _ | 0.01    | _ | 16.0 | 16.0 | < 0.005 | < 0.005 | _ | 16.1 |
| Total                             | 2.75 | 2.70 | 0.03    | 3.89 | < 0.005 | 0.01    | _ | 0.01    | 0.01    | _ | 0.01    | _ | 16.0 | 16.0 | < 0.005 | < 0.005 | _ | 16.1 |
| Daily,<br>Winter<br>(Max)         | _    | _    | _       | _    | _       | _       | _ | _       | _       | _ | _       | _ | _    | -    | -       | _       | _ | _    |
| Consum<br>er<br>Product<br>s      | 1.92 | 1.92 | -       | _    | _       | _       | _ | _       | _       | _ | _       | _ | _    | -    | -       | _       | _ | _    |
| Architect<br>ural<br>Coating<br>s | 0.14 | 0.14 | _       | _    | _       | _       | _ | _       | _       | _ | _       | _ | _    | _    | _       | _       | _ | _    |
| Total                             | 2.06 | 2.06 | _       | _    | _       | _       | _ | _       | _       | _ | _       | _ | _    | _    | _       | _       | _ | _    |
| Annual                            | _    | _    | _       | _    | _       | _       | _ | _       | _       | _ | _       | _ | _    | _    | _       | _       | _ | _    |
| Consum<br>er<br>Product<br>s      | 0.35 | 0.35 | _       | _    | _       | _       | _ | _       | _       | _ | _       | _ | _    | _    | _       | _       | _ | _    |
| Architect<br>ural<br>Coating<br>s | 0.03 | 0.03 | _       | _    | _       | _       | _ | _       | _       | _ | _       | _ | _    | _    | _       | _       | _ | _    |
| Landsca<br>pe<br>Equipm<br>ent    | 0.06 | 0.06 | < 0.005 | 0.35 | < 0.005 | < 0.005 | _ | < 0.005 | < 0.005 | _ | < 0.005 | _ | 1.31 | 1.31 | < 0.005 | < 0.005 | _ | 1.31 |
| Total                             | 0.44 | 0.43 | < 0.005 | 0.35 | < 0.005 | < 0.005 | _ | < 0.005 | < 0.005 | _ | < 0.005 | _ | 1.31 | 1.31 | < 0.005 | < 0.005 | _ | 1.31 |

### 4.3.2. Mitigated

|                                   | TOG  | ROG  | NOx  | co   | SO2     |      | PM10D |      | PM2.5E |   |      |   | NBCO2 | CO2T | CH4     | N2O     | R | CO2e |
|-----------------------------------|------|------|------|------|---------|------|-------|------|--------|---|------|---|-------|------|---------|---------|---|------|
| Daily,<br>Summer<br>(Max)         | _    | _    | —    | _    | _       | _    | _     | _    | —      | — | -    | _ | _     | _    | _       | _       | _ | _    |
| Consum<br>er<br>Product<br>s      | 1.92 | 1.92 | _    | _    | _       | _    | _     | _    | _      | _ | _    | _ | _     | _    | _       | _       | _ | _    |
| Architect<br>ural<br>Coating<br>s | 0.14 | 0.14 | _    | _    | -       | _    | _     | _    | _      | _ | _    | _ | _     | _    | _       | _       | _ | _    |
| Landsca<br>pe<br>Equipm<br>ent    | 0.69 | 0.64 | 0.03 | 3.89 | < 0.005 | 0.01 | _     | 0.01 | 0.01   | _ | 0.01 | _ | 16.0  | 16.0 | < 0.005 | < 0.005 | _ | 16.1 |
| Total                             | 2.75 | 2.70 | 0.03 | 3.89 | < 0.005 | 0.01 | _     | 0.01 | 0.01   | _ | 0.01 | _ | 16.0  | 16.0 | < 0.005 | < 0.005 | _ | 16.1 |
| Daily,<br>Winter<br>(Max)         | _    | _    | _    | _    | -       | _    | _     | _    | _      | _ | _    | _ | _     | _    | _       | _       | _ | _    |
| Consum<br>er<br>Product<br>s      | 1.92 | 1.92 | _    | _    | -       | _    | _     | _    | _      | _ | _    | _ | _     | _    | _       | _       | _ | _    |
| Architect<br>ural<br>Coating<br>s | 0.14 | 0.14 | _    | _    | -       | _    | _     | _    | _      | _ | _    | _ | _     | _    | _       | _       | _ | _    |
| Total                             | 2.06 | 2.06 | _    | _    | _       | _    | _     | _    | _      | _ | _    | _ | _     | _    | _       | _       | _ | _    |
| Annual                            | _    | _    | _    | _    | _       | _    | _     | _    | _      | _ | _    | _ | _     | _    | _       | _       | _ | _    |
| Consum<br>er<br>Product<br>s      | 0.35 | 0.35 | _    | _    | _       | _    | _     | _    | _      | _ | _    | _ | _     | _    | _       | _       | _ | _    |

| Architect ural Coating         | 0.03 | 0.03 | _       | _    | _       | _       | _ | _       | _       | _ | _       | _ | _    | _    | _       | _       | _ | _    |
|--------------------------------|------|------|---------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Landsca<br>pe<br>Equipm<br>ent | 0.06 | 0.06 | < 0.005 | 0.35 | < 0.005 | < 0.005 | _ | < 0.005 | < 0.005 | _ | < 0.005 | _ | 1.31 | 1.31 | < 0.005 | < 0.005 | _ | 1.31 |
| Total                          | 0.44 | 0.43 | < 0.005 | 0.35 | < 0.005 | < 0.005 | _ | < 0.005 | < 0.005 | _ | < 0.005 | _ | 1.31 | 1.31 | < 0.005 | < 0.005 | _ | 1.31 |

# 4.4. Water Emissions by Land Use

#### 4.4.1. Unmitigated

|                               |     |     |     | J j, 10 | , , | /     |       | ,     | .,     | ,,     | ,      |      |       |      |      |      |   |      |
|-------------------------------|-----|-----|-----|---------|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Land<br>Use                   | TOG | ROG | NOx | со      | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | СО2Т | CH4  | N2O  | R | CO2e |
| Daily,<br>Summer<br>(Max)     | _   | _   | _   | _       | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | _   | _   | _   | _       | _   | _     | _     | _     | _      | _      | _      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | _   | _   | _   | _       | _   | _     | _     | _     | _      | _      | _      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Daily,<br>Winter<br>(Max)     | _   | _   | _   | _       | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial |     | _   | _   | _       | _   | _     | _     | _     | _      |        | _      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | _   | _   | _   | _       | _   | _     | _     | _     | _      | _      | _      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Annual                        | _   | _   | _   | _       | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | _   | _   | _   | _       | _   | _     | _     | _     | _      | _      | _      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | _   | _   | _   | _       | _   | _     | _     | _     | _      | _      | _      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |

#### 4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land<br>Use                   | TOG | ROG | NOx | СО | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|-------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily,<br>Summer<br>(Max)     | _   | _   | _   | -  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Daily,<br>Winter<br>(Max)     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Annual                        | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |

# 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

| Land<br>Use               | TOG | ROG | NOx | СО | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      |      |       |      | _   |     | _ | _    |

| User<br>Defined<br>Industrial | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Total                         | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |   | 0.00 |
| Daily,<br>Winter<br>(Max)     | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _    | _    | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Annual                        | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _    | _    | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |

### 4.5.2. Mitigated

| Land<br>Use                   | TOG | ROG | NOx | СО | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|-------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily,<br>Summer<br>(Max)     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | _   | _   | _   | _  | _   | _     | _     | _     |        | _      | _      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | _   | _   | _   | _  | _   |       | _     | _     | _      | _      | _      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Daily,<br>Winter<br>(Max)     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      |      | _     | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | _ | 0.00 |

| Total                         | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Annual                        | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _    | _    | _    | _    | _    | _ | _    |
| User<br>Defined<br>Industrial | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |
| Total                         | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | _ | 0.00 |

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land<br>Use               | TOG | ROG | NOx | СО |   | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|---|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _  | _ | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _ | _     |       |       | _      | _      | _      |      | _     | _    |     | _   | _ | _    |
| Daily,<br>Winter<br>(Max) | _   | _   | _   | _  | _ | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _ | _     |       | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Annual                    | _   | _   | _   | _  | _ | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _ | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

#### 4.6.2. Mitigated

| Land<br>Use               | TOG | ROG | NOx | СО | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

| Daily,<br>Winter<br>(Max) | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total                     | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Annual                    | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Total                     | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipm<br>ent<br>Type     | TOG | ROG | NOx | со | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Daily,<br>Winter<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Annual                    | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

#### 4.7.2. Mitigated

| Equipm<br>ent<br>Type     | TOG | ROG | NOx | со | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

| Total                     | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily,<br>Winter<br>(Max) | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Total                     | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Annual                    | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Total                     | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

|                           |     |     |     | _ · |     |       |       |       |        | <u> </u> |        |      |       |      |     |     |   |      |
|---------------------------|-----|-----|-----|-----|-----|-------|-------|-------|--------|----------|--------|------|-------|------|-----|-----|---|------|
| Equipm<br>ent<br>Type     | TOG | ROG | NOx | СО  | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D   | PM2.5T | BCO2 | NBCO2 | СО2Т | CH4 | N2O | R | CO2e |
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _   | _   | _     | _     | _     | _      | _        | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _   | _   | _     | _     | _     | _      | _        | _      | _    | _     | _    | _   | _   | _ | _    |
| Daily,<br>Winter<br>(Max) | _   | _   | _   | _   | _   | _     | _     | _     | _      | _        | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _   | _   | _     | _     | _     | _      | _        | _      | _    | _     | _    | _   | _   | _ | _    |
| Annual                    | _   | _   | _   | _   | _   | _     | _     | _     | _      | _        | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _   | _   | _     | _     | _     | _      | _        | _      | _    | _     | _    | _   | _   | _ | _    |

### 4.8.2. Mitigated

|        |     |     |     |    |     |       |       |       |        | <u> </u> |        |      |       |      |     |     |   |      |
|--------|-----|-----|-----|----|-----|-------|-------|-------|--------|----------|--------|------|-------|------|-----|-----|---|------|
| Equipm | TOG | ROG | NOx | со | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D   | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
| ent    |     |     |     |    |     |       |       |       |        |          |        |      |       |      |     |     |   |      |
| Туре   |     |     |     |    |     |       |       |       |        |          |        |      |       |      |     |     |   |      |

| Daily,<br>Summer<br>(Max) | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total                     | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Daily,<br>Winter<br>(Max) | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Total                     | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Annual                    | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Total                     | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |

### 4.9. User Defined Emissions By Equipment Type

#### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipm<br>ent<br>Type     | TOG | ROG | NOx | со | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Daily,<br>Winter<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Annual                    | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

#### 4.9.2. Mitigated

| Equipm<br>ent             | TOG | ROG | NOx | со | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Daily,<br>Winter<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Annual                    | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetati<br>on            | TOG | ROG | NOx | СО | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      |        | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Daily,<br>Winter<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Annual                    | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

| Land<br>Use               | TOG | ROG | NOx | со | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Daily,<br>Winter<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Annual                    | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

| Species                   | TOG | ROG | NOx | СО | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Avoided                   | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Subtotal                  | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Sequest ered              | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Subtotal                  | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Remove<br>d               | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      |      | _     | _    | _   | _   | _ | _    |
| Subtotal                  | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| _                         | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Daily,<br>Winter<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Avoided                   | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

| Subtotal     | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _        |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| Sequest ered | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _        |
| Subtotal     | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _        |
| Remove<br>d  | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _        |
| Subtotal     | _ | _ |   | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | <u> </u> |
| _            | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _        |
| Annual       | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _        |
| Avoided      | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _        |
| Subtotal     | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _        |
| Sequest ered | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _        |
| Subtotal     | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _        |
| Remove<br>d  | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _        |
| Subtotal     | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _        |
| _            | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _        |

### 4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

| Vegetati<br>on            | TOG | ROG | NOx | СО | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Daily,<br>Winter<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

| Annual | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total  | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |

### 4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land<br>Use               | TOG |   |   | СО |   |   | PM10D |   |   | PM2.5D |   |   | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|---|---|----|---|---|-------|---|---|--------|---|---|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | _   | _ | _ | _  | _ | _ | _     | _ | _ | _      | _ | _ | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _ | _ | _  | _ | _ | _     | _ | _ | _      | _ | _ | _     | _    | _   | _   | _ | _    |
| Daily,<br>Winter<br>(Max) | _   | _ | _ | _  | _ | _ | _     | _ | _ | _      | _ | _ | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _ | _ | _  | _ | _ | _     | _ | _ | _      | _ | _ | _     | _    | _   | _   | _ | _    |
| Annual                    | _   | _ | _ | _  | _ | _ | _     | _ | _ | _      | _ | _ | _     | _    | _   | _   | _ | _    |
| Total                     | _   | _ | _ | _  | _ | _ | _     | _ | _ | _      | _ | _ | _     | _    | _   | _   | _ | _    |

#### 4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

| Species                   | TOG | ROG | NOx | со | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | _   | _   | _   | _  | _   | _     | _     | _     |        | _      | _      | _    |       | _    | _   | _   | _ | _    |
| Avoided                   | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Subtotal                  | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Sequest ered              | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Subtotal                  | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |
| Remove<br>d               | _   | _   | _   | _  | _   | _     | _     | _     | _      | _      | _      | _    | _     | _    | _   | _   | _ | _    |

| Subtotal                  | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| _                         | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Daily,<br>Winter<br>(Max) | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Avoided                   | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Subtotal                  | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Sequest ered              | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |   |
| Subtotal                  | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Remove<br>d               | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Subtotal                  | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _                         | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Annual                    | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Avoided                   | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Subtotal                  | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Sequest ered              | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |   |
| Subtotal                  | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Remove<br>d               | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Subtotal                  | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _                         | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

# 5. Activity Data

### 5.1. Construction Schedule

| Phase Name | Phase Type | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|------------|------------|------------|----------|---------------|---------------------|-------------------|

| Gen-tie Site Prep<br>(Orchard Removal)                                  | Site Preparation      | 4/1/2026   | 4/15/2026  | 5.00 | 11.0 | _ |
|---|-----------------------|------------|------------|------|------|---|
| Site Preparation  | Site Preparation      | 3/1/2026   | 4/30/2026  | 5.00 | 44.0 | _ |
| Grading   | Grading               | 4/1/2026   | 6/30/2026  | 5.00 | 65.0 | _ |
| Battery/Container<br>Installation                                       | Building Construction | 5/1/2026   | 11/30/2026 | 5.00 | 152  | _ |
| Substation Installation   | Building Construction | 7/1/2026   | 12/31/2026 | 5.00 | 132  | _ |
| Gen-tie Foundations,<br>Tower Erection, and<br>Underground Installation | Building Construction | 7/1/2026   | 12/31/2026 | 5.00 | 132  | _ |
| Gen-tie Stringing and Pulling   | Building Construction | 11/1/2026  | 1/31/2027  | 5.00 | 65.0 | _ |
| Commissioning   | Building Construction | 2/1/2027   | 4/30/2027  | 5.00 | 65.0 | _ |
| Generator Only Phase -<br>Construction                                  | Building Construction | 3/1/2026   | 4/30/2027  | 5.00 | 305  | _ |
| GW Well Drilling/Testing  | Building Construction | 2/1/2026   | 3/8/2026   | 5.00 | 25.0 | _ |
| GW Well Equipment Installation  | Building Construction | 3/9/2026   | 3/31/2026  | 5.00 | 17.0 | _ |
| Telecom   | Building Construction | 12/1/2026  | 1/26/2027  | 5.00 | 41.0 | _ |
| Onsite Water Tank   | Building Construction | 11/10/2026 | 2/16/2027  | 5.00 | 71.0 | _ |

# 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

| Phase Name                             | Equipment Type                  | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|--|---------------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Gen-tie Site Prep<br>(Orchard Removal) | Rubber Tired Dozers             | Diesel    | Average     | 2.00           | 8.00          | 367        | 0.40        |
| Gen-tie Site Prep<br>(Orchard Removal) | Excavators                      | Diesel    | Average     | 1.00           | 8.00          | 36.0       | 0.38        |
| Gen-tie Site Prep<br>(Orchard Removal) | Other Construction<br>Equipment | Diesel    | Average     | 1.00           | 8.00          | 82.0       | 0.42        |
| Site Preparation                       | Rubber Tired Dozers             | Diesel    | Average     | 1.00           | 8.00          | 367        | 0.40        |

| Site Preparation                  | Skid Steer Loaders         | Diesel | Average | 1.00 | 4.00 | 71.0 | 0.37 |
|-----------------------------------|----------------------------|--------|---------|------|------|------|------|
| Site Preparation                  | Tractors/Loaders/Back hoes | Diesel | Average | 1.00 | 4.00 | 84.0 | 0.37 |
| Grading                           | Graders                    | Diesel | Average | 1.00 | 8.00 | 148  | 0.41 |
| Grading                           | Plate Compactors           | Diesel | Average | 1.00 | 6.00 | 8.00 | 0.43 |
| Grading                           | Rollers                    | Diesel | Average | 1.00 | 6.00 | 36.0 | 0.38 |
| Grading                           | Rubber Tired Loaders       | Diesel | Average | 1.00 | 6.00 | 150  | 0.36 |
| Grading                           | Skid Steer Loaders         | Diesel | Average | 1.00 | 6.00 | 71.0 | 0.37 |
| Grading                           | Tractors/Loaders/Back hoes | Diesel | Average | 1.00 | 8.00 | 84.0 | 0.37 |
| Grading                           | Off-Highway Trucks         | Diesel | Average | 1.00 | 8.00 | 376  | 0.38 |
| Battery/Container<br>Installation | Cranes                     | Diesel | Average | 2.00 | 8.00 | 367  | 0.29 |
| Battery/Container<br>Installation | Air Compressors            | Diesel | Average | 2.00 | 6.00 | 37.0 | 0.48 |
| Battery/Container<br>Installation | Excavators                 | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Battery/Container<br>Installation | Plate Compactors           | Diesel | Average | 2.00 | 4.00 | 8.00 | 0.43 |
| Battery/Container<br>Installation | Generator Sets             | Diesel | Average | 2.00 | 8.00 | 369  | 0.74 |
| Battery/Container<br>Installation | Rollers                    | Diesel | Average | 1.00 | 8.00 | 36.0 | 0.38 |
| Battery/Container<br>Installation | Skid Steer Loaders         | Diesel | Average | 2.00 | 6.00 | 71.0 | 0.37 |
| Battery/Container<br>Installation | Tractors/Loaders/Back hoes | Diesel | Average | 2.00 | 6.00 | 84.0 | 0.37 |
| Battery/Container<br>Installation | Rough Terrain Forklifts    | Diesel | Average | 1.00 | 8.00 | 96.0 | 0.40 |
| Substation Installation           | Air Compressors            | Diesel | Average | 1.00 | 8.00 | 37.0 | 0.48 |
| Substation Installation           | Aerial Lifts               | Diesel | Average | 4.00 | 4.00 | 46.0 | 0.31 |
| Substation Installation           | Bore/Drill Rigs            | Diesel | Average | 1.00 | 2.00 | 83.0 | 0.50 |

| Substation Installation  | Cranes                     | Diesel | Average | 1.00 | 4.00 | 367  | 0.29 |
|--|----------------------------|--------|---------|------|------|------|------|
| Substation Installation  | Excavators                 | Diesel | Average | 1.00 | 8.00 | 36.0 | 0.38 |
| Substation Installation  | Generator Sets             | Diesel | Average | 1.00 | 4.00 | 369  | 0.74 |
| Substation Installation  | Rollers                    | Diesel | Average | 1.00 | 6.00 | 36.0 | 0.38 |
| Substation Installation  | Rubber Tired Dozers        | Diesel | Average | 1.00 | 8.00 | 367  | 0.40 |
| Substation Installation  | Tractors/Loaders/Back hoes | Diesel | Average | 1.00 | 6.00 | 84.0 | 0.37 |
| Substation Installation  | Trenchers                  | Diesel | Average | 2.00 | 8.00 | 40.0 | 0.50 |
| Substation Installation  | Skid Steer Loaders         | Diesel | Average | 1.00 | 6.00 | 71.0 | 0.37 |
| Substation Installation  | Rough Terrain Forklifts    | Diesel | Average | 1.00 | 6.00 | 96.0 | 0.40 |
| Gen-tie Foundations,<br>Tower Erection, and<br>Underground<br>Installation | Air Compressors            | Diesel | Average | 2.00 | 6.00 | 37.0 | 0.48 |
| Gen-tie Foundations,<br>Tower Erection, and<br>Underground<br>Installation | Cranes                     | Diesel | Average | 1.00 | 8.00 | 367  | 0.29 |
| Gen-tie Foundations,<br>Tower Erection, and<br>Underground<br>Installation | Forklifts                  | Diesel | Average | 1.00 | 6.00 | 82.0 | 0.20 |
| Gen-tie Foundations,<br>Tower Erection, and<br>Underground<br>Installation | Pumps                      | Diesel | Average | 2.00 | 4.00 | 11.0 | 0.74 |
| Gen-tie Foundations,<br>Tower Erection, and<br>Underground<br>Installation | Welders                    | Diesel | Average | 2.00 | 8.00 | 46.0 | 0.45 |
| Gen-tie Foundations,<br>Tower Erection, and<br>Underground<br>Installation | Bore/Drill Rigs            | Diesel | Average | 1.00 | 4.00 | 83.0 | 0.50 |

| Gen-tie Foundations,<br>Tower Erection, and<br>Underground<br>Installation | Excavators                 | Diesel | Average | 1.00 | 6.00 | 36.0 | 0.38 |
|--|----------------------------|--------|---------|------|------|------|------|
| Gen-tie Foundations,<br>Tower Erection, and<br>Underground<br>Installation | Off-Highway Trucks         | Diesel | Average | 1.00 | 8.00 | 376  | 0.38 |
| Gen-tie Stringing and<br>Pulling   | Aerial Lifts               | Diesel | Average | 2.00 | 6.00 | 46.0 | 0.31 |
| Gen-tie Stringing and<br>Pulling   | Tractors/Loaders/Back hoes | Diesel | Average | 2.00 | 6.00 | 84.0 | 0.37 |
| Generator Only Phase<br>- Construction                                     | Generator Sets             | Diesel | Average | 2.00 | 8.00 | 369  | 0.74 |
| Generator Only Phase<br>- Construction                                     | Pumps                      | Diesel | Average | 1.00 | 2.00 | 11.0 | 0.74 |
| GW Well<br>Drilling/Testing  | Bore/Drill Rigs            | Diesel | Average | 1.00 | 8.00 | 83.0 | 0.50 |
| GW Well<br>Drilling/Testing  | Generator Sets             | Diesel | Average | 1.00 | 4.00 | 14.0 | 0.74 |
| GW Well<br>Drilling/Testing  | Air Compressors            | Diesel | Average | 1.00 | 4.00 | 37.0 | 0.48 |
| GW Well<br>Drilling/Testing  | Forklifts                  | Diesel | Average | 1.00 | 4.00 | 82.0 | 0.20 |
| GW Well<br>Drilling/Testing  | Tractors/Loaders/Back hoes | Diesel | Average | 1.00 | 4.00 | 84.0 | 0.37 |
| GW Well Equipment<br>Installation  | Generator Sets             | Diesel | Average | 1.00 | 4.00 | 14.0 | 0.74 |
| GW Well Equipment<br>Installation  | Air Compressors            | Diesel | Average | 1.00 | 4.00 | 37.0 | 0.48 |
| GW Well Equipment<br>Installation  | Forklifts                  | Diesel | Average | 1.00 | 4.00 | 82.0 | 0.20 |
| GW Well Equipment<br>Installation  | Tractors/Loaders/Back hoes | Diesel | Average | 1.00 | 4.00 | 84.0 | 0.37 |
| Onsite Water Tank  | Excavators                 | Diesel | Average | 2.00 | 4.00 | 36.0 | 0.38 |

| Onsite Water Tank | Tractors/Loaders/Back | Diesel | Average | 2.00 | 6.00 | 84.0 | 0.37 |
|-------------------|-----------------------|--------|---------|------|------|------|------|
| Onsite Water Tank | Rubber Tired Dozers   | Diesel | Average | 1.00 | 2.00 | 367  | 0.40 |
| Onsite Water Tank | Cranes                | Diesel | Average | 2.00 | 4.00 | 367  | 0.29 |
| Onsite Water Tank | Welders               | Diesel | Average | 2.00 | 4.00 | 46.0 | 0.45 |
| Onsite Water Tank | Generator Sets        | Diesel | Average | 2.00 | 4.00 | 14.0 | 0.74 |
| Onsite Water Tank | Plate Compactors      | Diesel | Average | 2.00 | 2.00 | 8.00 | 0.43 |
| Onsite Water Tank | Off-Highway Trucks    | Diesel | Average | 2.00 | 8.00 | 376  | 0.38 |

# 5.2.2. Mitigated

| Phase Name                             | Equipment Type                  | Fuel Type | Engine Tier  | Number per Day | Hours Per Day | Horsepower | Load Factor |
|--|---------------------------------|-----------|--------------|----------------|---------------|------------|-------------|
| Gen-tie Site Prep<br>(Orchard Removal) | Rubber Tired Dozers             | Diesel    | Tier 4 Final | 2.00           | 8.00          | 367        | 0.40        |
| Gen-tie Site Prep<br>(Orchard Removal) | Excavators                      | Diesel    | Tier 4 Final | 1.00           | 8.00          | 36.0       | 0.38        |
| Gen-tie Site Prep<br>(Orchard Removal) | Other Construction<br>Equipment | Diesel    | Tier 4 Final | 1.00           | 8.00          | 82.0       | 0.42        |
| Site Preparation                       | Rubber Tired Dozers             | Diesel    | Tier 4 Final | 1.00           | 8.00          | 367        | 0.40        |
| Site Preparation                       | Skid Steer Loaders              | Diesel    | Tier 4 Final | 1.00           | 4.00          | 71.0       | 0.37        |
| Site Preparation                       | Tractors/Loaders/Back hoes      | Diesel    | Tier 4 Final | 1.00           | 4.00          | 84.0       | 0.37        |
| Grading                                | Graders                         | Diesel    | Tier 4 Final | 1.00           | 8.00          | 148        | 0.41        |
| Grading                                | Plate Compactors                | Diesel    | Average      | 1.00           | 6.00          | 8.00       | 0.43        |
| Grading                                | Rollers                         | Diesel    | Tier 4 Final | 1.00           | 6.00          | 36.0       | 0.38        |
| Grading                                | Rubber Tired Loaders            | Diesel    | Tier 4 Final | 1.00           | 6.00          | 150        | 0.36        |
| Grading                                | Skid Steer Loaders              | Diesel    | Tier 4 Final | 1.00           | 6.00          | 71.0       | 0.37        |
| Grading                                | Tractors/Loaders/Back hoes      | Diesel    | Tier 4 Final | 1.00           | 8.00          | 84.0       | 0.37        |
| Grading                                | Off-Highway Trucks              | Diesel    | Tier 4 Final | 1.00           | 8.00          | 376        | 0.38        |
| Battery/Container<br>Installation      | Cranes                          | Diesel    | Tier 4 Final | 2.00           | 8.00          | 367        | 0.29        |

| Battery/Container<br>Installation  | Air Compressors            | Diesel | Tier 4 Final | 2.00 | 6.00 | 37.0 | 0.48 |
|--|----------------------------|--------|--------------|------|------|------|------|
| Battery/Container<br>Installation  | Excavators                 | Diesel | Tier 4 Final | 2.00 | 8.00 | 36.0 | 0.38 |
| Battery/Container<br>Installation  | Plate Compactors           | Diesel | Average      | 2.00 | 4.00 | 8.00 | 0.43 |
| Battery/Container<br>Installation  | Generator Sets             | Diesel | Tier 4 Final | 2.00 | 8.00 | 369  | 0.74 |
| Battery/Container<br>Installation  | Rollers                    | Diesel | Tier 4 Final | 1.00 | 8.00 | 36.0 | 0.38 |
| Battery/Container<br>Installation  | Skid Steer Loaders         | Diesel | Tier 4 Final | 2.00 | 6.00 | 71.0 | 0.37 |
| Battery/Container<br>Installation  | Tractors/Loaders/Back hoes | Diesel | Tier 4 Final | 2.00 | 6.00 | 84.0 | 0.37 |
| Battery/Container<br>Installation  | Rough Terrain Forklifts    | Diesel | Tier 4 Final | 1.00 | 8.00 | 96.0 | 0.40 |
| Substation Installation  | Air Compressors            | Diesel | Tier 4 Final | 1.00 | 8.00 | 37.0 | 0.48 |
| Substation Installation  | Aerial Lifts               | Diesel | Tier 4 Final | 4.00 | 4.00 | 46.0 | 0.31 |
| Substation Installation  | Bore/Drill Rigs            | Diesel | Tier 4 Final | 1.00 | 2.00 | 83.0 | 0.50 |
| Substation Installation  | Cranes                     | Diesel | Tier 4 Final | 1.00 | 4.00 | 367  | 0.29 |
| Substation Installation  | Excavators                 | Diesel | Tier 4 Final | 1.00 | 8.00 | 36.0 | 0.38 |
| Substation Installation  | Generator Sets             | Diesel | Tier 4 Final | 1.00 | 4.00 | 369  | 0.74 |
| Substation Installation  | Rollers                    | Diesel | Tier 4 Final | 1.00 | 6.00 | 36.0 | 0.38 |
| Substation Installation  | Rubber Tired Dozers        | Diesel | Tier 4 Final | 1.00 | 8.00 | 367  | 0.40 |
| Substation Installation  | Tractors/Loaders/Back hoes | Diesel | Tier 4 Final | 1.00 | 6.00 | 84.0 | 0.37 |
| Substation Installation  | Trenchers                  | Diesel | Tier 4 Final | 2.00 | 8.00 | 40.0 | 0.50 |
| Substation Installation  | Skid Steer Loaders         | Diesel | Tier 4 Final | 1.00 | 6.00 | 71.0 | 0.37 |
| Substation Installation  | Rough Terrain Forklifts    | Diesel | Tier 4 Final | 1.00 | 6.00 | 96.0 | 0.40 |
| Gen-tie Foundations,<br>Tower Erection, and<br>Underground<br>Installation | Air Compressors            | Diesel | Tier 4 Final | 2.00 | 6.00 | 37.0 | 0.48 |

| Gen-tie Foundations,<br>Tower Erection, and<br>Underground<br>Installation | Cranes                     | Diesel | Tier 4 Final | 1.00 | 8.00 | 367  | 0.29 |
|--|----------------------------|--------|--------------|------|------|------|------|
| Gen-tie Foundations,<br>Tower Erection, and<br>Underground<br>Installation | Forklifts                  | Diesel | Tier 4 Final | 1.00 | 6.00 | 82.0 | 0.20 |
| Gen-tie Foundations,<br>Tower Erection, and<br>Underground<br>Installation | Pumps                      | Diesel | Average      | 2.00 | 4.00 | 11.0 | 0.74 |
| Gen-tie Foundations,<br>Tower Erection, and<br>Underground<br>Installation | Welders                    | Diesel | Tier 4 Final | 2.00 | 8.00 | 46.0 | 0.45 |
| Gen-tie Foundations,<br>Tower Erection, and<br>Underground<br>Installation | Bore/Drill Rigs            | Diesel | Tier 4 Final | 1.00 | 4.00 | 83.0 | 0.50 |
| Gen-tie Foundations,<br>Tower Erection, and<br>Underground<br>Installation | Excavators                 | Diesel | Tier 4 Final | 1.00 | 6.00 | 36.0 | 0.38 |
| Gen-tie Foundations,<br>Tower Erection, and<br>Underground<br>Installation | Off-Highway Trucks         | Diesel | Tier 4 Final | 1.00 | 8.00 | 376  | 0.38 |
| Gen-tie Stringing and<br>Pulling   | Aerial Lifts               | Diesel | Tier 4 Final | 2.00 | 6.00 | 46.0 | 0.31 |
| Gen-tie Stringing and<br>Pulling   | Tractors/Loaders/Back hoes | Diesel | Tier 4 Final | 2.00 | 6.00 | 84.0 | 0.37 |
| Generator Only Phase - Construction  | Generator Sets             | Diesel | Tier 4 Final | 2.00 | 8.00 | 369  | 0.74 |
| Generator Only Phase - Construction  | Pumps                      | Diesel | Average      | 1.00 | 2.00 | 11.0 | 0.74 |
| GW Well<br>Drilling/Testing  | Bore/Drill Rigs            | Diesel | Tier 4 Final | 1.00 | 8.00 | 83.0 | 0.50 |

| GW Well<br>Drilling/Testing       | Generator Sets             | Diesel | Average      | 1.00 | 4.00 | 14.0 | 0.74 |
|-----------------------------------|----------------------------|--------|--------------|------|------|------|------|
| GW Well<br>Drilling/Testing       | Air Compressors            | Diesel | Tier 4 Final | 1.00 | 4.00 | 37.0 | 0.48 |
| GW Well<br>Drilling/Testing       | Forklifts                  | Diesel | Tier 4 Final | 1.00 | 4.00 | 82.0 | 0.20 |
| GW Well<br>Drilling/Testing       | Tractors/Loaders/Back hoes | Diesel | Tier 4 Final | 1.00 | 4.00 | 84.0 | 0.37 |
| GW Well Equipment<br>Installation | Generator Sets             | Diesel | Average      | 1.00 | 4.00 | 14.0 | 0.74 |
| GW Well Equipment<br>Installation | Air Compressors            | Diesel | Tier 4 Final | 1.00 | 4.00 | 37.0 | 0.48 |
| GW Well Equipment<br>Installation | Forklifts                  | Diesel | Tier 4 Final | 1.00 | 4.00 | 82.0 | 0.20 |
| GW Well Equipment<br>Installation | Tractors/Loaders/Back hoes | Diesel | Tier 4 Final | 1.00 | 4.00 | 84.0 | 0.37 |
| Onsite Water Tank                 | Excavators                 | Diesel | Tier 4 Final | 2.00 | 4.00 | 36.0 | 0.38 |
| Onsite Water Tank                 | Tractors/Loaders/Back hoes | Diesel | Tier 4 Final | 2.00 | 6.00 | 84.0 | 0.37 |
| Onsite Water Tank                 | Rubber Tired Dozers        | Diesel | Tier 4 Final | 1.00 | 2.00 | 367  | 0.40 |
| Onsite Water Tank                 | Cranes                     | Diesel | Tier 4 Final | 2.00 | 4.00 | 367  | 0.29 |
| Onsite Water Tank                 | Welders                    | Diesel | Tier 4 Final | 2.00 | 4.00 | 46.0 | 0.45 |
| Onsite Water Tank                 | Generator Sets             | Diesel | Average      | 2.00 | 4.00 | 14.0 | 0.74 |
| Onsite Water Tank                 | Plate Compactors           | Diesel | Average      | 2.00 | 2.00 | 8.00 | 0.43 |
| Onsite Water Tank                 | Off-Highway Trucks         | Diesel | Tier 4 Final | 2.00 | 8.00 | 376  | 0.38 |

# 5.3. Construction Vehicles

# 5.3.1. Unmitigated

| Phase Name       | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|------------------|-----------|-----------------------|----------------|---------------|
| Site Preparation | _         | _                     | _              | _             |
| Site Preparation | Worker    | 16.0                  | 12.4           | LDA,LDT1,LDT2 |

| Site Proporation  | Vandar       | 8.00 | 7.29 | HHDT,MHDT     |
|---|--------------|------|------|---------------|
| Site Preparation  | Vendor       |      |      | ·             |
| Site Preparation  | Hauling      | 20.0 | 20.0 | HHDT          |
| Site Preparation  | Onsite truck | 8.00 | 1.25 | HHDT          |
| Grading   | _            | _    | _    | _             |
| Grading   | Worker       | 80.0 | 12.4 | LDA,LDT1,LDT2 |
| Grading   | Vendor       | 16.0 | 7.29 | HHDT          |
| Grading   | Hauling      | 87.0 | 50.0 | HHDT          |
| Grading   | Onsite truck | 40.0 | 1.25 | HHDT          |
| Battery/Container Installation                                    | _            | _    | _    | _             |
| Battery/Container Installation                                    | Worker       | 120  | 12.4 | LDA,LDT1,LDT2 |
| Battery/Container Installation                                    | Vendor       | 30.0 | 7.29 | HHDT,MHDT     |
| Battery/Container Installation                                    | Hauling      | 30.0 | 20.0 | HHDT          |
| Battery/Container Installation                                    | Onsite truck | 10.0 | 1.25 | HHDT          |
| Substation Installation   | _            | _    | _    | _             |
| Substation Installation   | Worker       | 80.0 | 12.4 | LDA,LDT1,LDT2 |
| Substation Installation   | Vendor       | 40.0 | 7.29 | HHDT,MHDT     |
| Substation Installation   | Hauling      | 20.0 | 20.0 | HHDT          |
| Substation Installation   | Onsite truck | 0.00 | 1.25 | HHDT          |
| Gen-tie Foundations, Tower Erection, and Underground Installation | _            | _    | _    | _             |
| Gen-tie Foundations, Tower Erection, and Underground Installation | Worker       | 80.0 | 12.4 | LDA,LDT1,LDT2 |
| Gen-tie Foundations, Tower Erection, and Underground Installation | Vendor       | 16.0 | 7.29 | HHDT,MHDT     |
| Gen-tie Foundations, Tower Erection, and Underground Installation | Hauling      | 46.0 | 20.0 | HHDT          |
| Gen-tie Foundations, Tower Erection, and Underground Installation | Onsite truck | 10.0 | 1.25 | HHDT          |
| Gen-tie Site Prep (Orchard Removal)                               | _            | _    | _    | _             |
| Gen-tie Site Prep (Orchard Removal)                               | Worker       | 10.0 | 12.4 | LDA,LDT1,LDT2 |

| Gen-tie Site Prep (Orchard Removal) | Vendor       | 0.00 | 7.29 | HHDT,MHDT     |
|-------------------------------------|--------------|------|------|---------------|
| Gen-tie Site Prep (Orchard Removal) | Hauling      | 13.0 | 50.0 | HHDT          |
| Gen-tie Site Prep (Orchard Removal) | Onsite truck | 2.00 | 1.25 | HHDT          |
| Gen-tie Stringing and Pulling       | _            | _    | _    | _             |
| Gen-tie Stringing and Pulling       | Worker       | 80.0 | 12.4 | LDA,LDT1,LDT2 |
| Gen-tie Stringing and Pulling       | Vendor       | 16.0 | 7.29 | HHDT,MHDT     |
| Gen-tie Stringing and Pulling       | Hauling      | 20.0 | 20.0 | HHDT          |
| Gen-tie Stringing and Pulling       | Onsite truck | 10.0 | 1.25 | HHDT          |
| Commissioning                       | _            | _    | _    | _             |
| Commissioning                       | Worker       | 150  | 12.4 | LDA,LDT1,LDT2 |
| Commissioning                       | Vendor       | 40.0 | 7.29 | HHDT,MHDT     |
| Commissioning                       | Hauling      | 0.00 | 20.0 | HHDT          |
| Commissioning                       | Onsite truck | 20.0 | 1.25 | HHDT          |
| Generator Only Phase - Construction | _            | _    | _    | _             |
| Generator Only Phase - Construction | Worker       | 0.00 | 12.4 | LDA,LDT1,LDT2 |
| Generator Only Phase - Construction | Vendor       | 0.00 | 7.29 | HHDT,MHDT     |
| Generator Only Phase - Construction | Hauling      | 0.00 | 20.0 | HHDT          |
| Generator Only Phase - Construction | Onsite truck | 0.00 | _    | HHDT          |
| GW Well Drilling/Testing            | _            | _    | _    | _             |
| GW Well Drilling/Testing            | Worker       | 8.00 | 12.4 | LDA,LDT1,LDT2 |
| GW Well Drilling/Testing            | Vendor       | 2.00 | 7.29 | HHDT          |
| GW Well Drilling/Testing            | Hauling      | 0.00 | 20.0 | HHDT          |
| GW Well Drilling/Testing            | Onsite truck | _    | _    | HHDT          |
| GW Well Equipment Installation      | _            | _    | _    | _             |
| GW Well Equipment Installation      | Worker       | 8.00 | 12.4 | LDA,LDT1,LDT2 |
| GW Well Equipment Installation      | Vendor       | 1.00 | 7.29 | HHDT          |
| GW Well Equipment Installation      | Hauling      | 0.00 | 20.0 | HHDT          |
| GW Well Equipment Installation      | Onsite truck | _    | _    | HHDT          |

| Telecom           | _            | _    | _    | _             |
|-------------------|--------------|------|------|---------------|
| Telecom           | Worker       | 0.00 | 12.4 | LDA,LDT1,LDT2 |
| Telecom           | Vendor       | 0.00 | 7.29 | HHDT,MHDT     |
| Telecom           | Hauling      | 0.00 | 20.0 | HHDT          |
| Telecom           | Onsite truck | _    | _    | HHDT          |
| Onsite Water Tank | _            | _    | _    | _             |
| Onsite Water Tank | Worker       | 52.0 | 12.4 | LDA,LDT1,LDT2 |
| Onsite Water Tank | Vendor       | 4.00 | 7.29 | HHDT          |
| Onsite Water Tank | Hauling      | 8.00 | 20.0 | HHDT          |
| Onsite Water Tank | Onsite truck | 4.00 | 1.25 | HHDT          |

# 5.3.2. Mitigated

| Phase Name                     | Trip Type    | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|--------------------------------|--------------|-----------------------|----------------|---------------|
| Site Preparation               | _            | _                     | _              | _             |
| Site Preparation               | Worker       | 16.0                  | 12.4           | LDA,LDT1,LDT2 |
| Site Preparation               | Vendor       | 8.00                  | 7.29           | HHDT,MHDT     |
| Site Preparation               | Hauling      | 20.0                  | 20.0           | HHDT          |
| Site Preparation               | Onsite truck | 8.00                  | 1.25           | HHDT          |
| Grading                        | _            | _                     | _              | _             |
| Grading                        | Worker       | 80.0                  | 12.4           | LDA,LDT1,LDT2 |
| Grading                        | Vendor       | 16.0                  | 7.29           | HHDT          |
| Grading                        | Hauling      | 87.0                  | 50.0           | HHDT          |
| Grading                        | Onsite truck | 40.0                  | 1.25           | HHDT          |
| Battery/Container Installation | _            | _                     | _              | _             |
| Battery/Container Installation | Worker       | 120                   | 12.4           | LDA,LDT1,LDT2 |
| Battery/Container Installation | Vendor       | 30.0                  | 7.29           | HHDT,MHDT     |
| Battery/Container Installation | Hauling      | 30.0                  | 20.0           | HHDT          |
| Battery/Container Installation | Onsite truck | 10.0                  | 1.25           | HHDT          |

| Substation Installation   | _            | _    | _    | _             |
|---|--------------|------|------|---------------|
| Substation Installation   | Worker       | 80.0 | 12.4 | LDA,LDT1,LDT2 |
| Substation Installation   | Vendor       | 40.0 | 7.29 | HHDT,MHDT     |
| Substation Installation   | Hauling      | 20.0 | 20.0 | HHDT          |
| Substation Installation   | Onsite truck | 0.00 | 1.25 | HHDT          |
| Gen-tie Foundations, Tower Erection, and Underground Installation | -            | _    | _    | -             |
| Gen-tie Foundations, Tower Erection, and Underground Installation | Worker       | 80.0 | 12.4 | LDA,LDT1,LDT2 |
| Gen-tie Foundations, Tower Erection, and Underground Installation | Vendor       | 16.0 | 7.29 | HHDT,MHDT     |
| Gen-tie Foundations, Tower Erection, and Underground Installation | Hauling      | 46.0 | 20.0 | HHDT          |
| Gen-tie Foundations, Tower Erection, and Underground Installation | Onsite truck | 10.0 | 1.25 | HHDT          |
| Gen-tie Site Prep (Orchard Removal)                               | _            | _    | _    | _             |
| Gen-tie Site Prep (Orchard Removal)                               | Worker       | 10.0 | 12.4 | LDA,LDT1,LDT2 |
| Gen-tie Site Prep (Orchard Removal)                               | Vendor       | 0.00 | 7.29 | HHDT,MHDT     |
| Gen-tie Site Prep (Orchard Removal)                               | Hauling      | 13.0 | 50.0 | HHDT          |
| Gen-tie Site Prep (Orchard Removal)                               | Onsite truck | 2.00 | 1.25 | HHDT          |
| Gen-tie Stringing and Pulling                                     | _            | _    | _    | _             |
| Gen-tie Stringing and Pulling                                     | Worker       | 80.0 | 12.4 | LDA,LDT1,LDT2 |
| Gen-tie Stringing and Pulling                                     | Vendor       | 16.0 | 7.29 | HHDT,MHDT     |
| Gen-tie Stringing and Pulling                                     | Hauling      | 20.0 | 20.0 | HHDT          |
| Gen-tie Stringing and Pulling                                     | Onsite truck | 10.0 | 1.25 | HHDT          |
| Commissioning   | _            | _    | _    | _             |
| Commissioning   | Worker       | 150  | 12.4 | LDA,LDT1,LDT2 |
| Commissioning   | Vendor       | 40.0 | 7.29 | HHDT,MHDT     |
| Commissioning   | Hauling      | 0.00 | 20.0 | HHDT          |
| Commissioning   | Onsite truck | 20.0 | 1.25 | HHDT          |

| Generator Only Phase - Construction | _            | _    | _    | _             |
|-------------------------------------|--------------|------|------|---------------|
| Generator Only Phase - Construction | Worker       | 0.00 | 12.4 | LDA,LDT1,LDT2 |
| Generator Only Phase - Construction | Vendor       | 0.00 | 7.29 | HHDT,MHDT     |
| Generator Only Phase - Construction | Hauling      | 0.00 | 20.0 | HHDT          |
| Generator Only Phase - Construction | Onsite truck | 0.00 | _    | HHDT          |
| GW Well Drilling/Testing            | _            | _    | _    | _             |
| GW Well Drilling/Testing            | Worker       | 8.00 | 12.4 | LDA,LDT1,LDT2 |
| GW Well Drilling/Testing            | Vendor       | 2.00 | 7.29 | HHDT          |
| GW Well Drilling/Testing            | Hauling      | 0.00 | 20.0 | HHDT          |
| GW Well Drilling/Testing            | Onsite truck | _    | _    | HHDT          |
| GW Well Equipment Installation      | _            | _    | _    | _             |
| GW Well Equipment Installation      | Worker       | 8.00 | 12.4 | LDA,LDT1,LDT2 |
| GW Well Equipment Installation      | Vendor       | 1.00 | 7.29 | HHDT          |
| GW Well Equipment Installation      | Hauling      | 0.00 | 20.0 | HHDT          |
| GW Well Equipment Installation      | Onsite truck | _    | _    | HHDT          |
| Telecom                             | _            | _    | _    | _             |
| Telecom                             | Worker       | 0.00 | 12.4 | LDA,LDT1,LDT2 |
| Telecom                             | Vendor       | 0.00 | 7.29 | HHDT,MHDT     |
| Telecom                             | Hauling      | 0.00 | 20.0 | HHDT          |
| Telecom                             | Onsite truck | _    | _    | HHDT          |
| Onsite Water Tank                   | _            | _    | _    | _             |
| Onsite Water Tank                   | Worker       | 52.0 | 12.4 | LDA,LDT1,LDT2 |
| Onsite Water Tank                   | Vendor       | 4.00 | 7.29 | HHDT          |
| Onsite Water Tank                   | Hauling      | 8.00 | 20.0 | HHDT          |
| Onsite Water Tank                   | Onsite truck | 4.00 | 1.25 | HHDT          |

# 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

| Phase Name | Residential Interior Area | Residential Exterior Area | Non-Residential Interior Area | Non-Residential Exterior Area | Parking Area Coated (sq ft) |
|------------|---------------------------|---------------------------|-------------------------------|-------------------------------|-----------------------------|
|            | Coated (sq ft)            | Coated (sq ft)            | Coated (sq ft)                | Coated (sq ft)                |                             |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (Cubic Yards) | Material Exported (Cubic Yards) | Acres Graded (acres) | Material Demolished (sq. ft.) | Acres Paved (acres) |
|------------|---------------------------------|---------------------------------|----------------------|-------------------------------|---------------------|
| Grading    | 35,293                          | 10,736                          | 32.5                 | 0.00                          | _                   |

## 5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

## 5.7. Construction Paving

| Land Use                | Area Paved (acres) | % Asphalt |
|-------------------------|--------------------|-----------|
| User Defined Industrial | 0.00               | 0%        |

## 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4  | N2O     |
|------|--------------|-----|------|---------|
| 2026 | 0.00         | 204 | 0.03 | < 0.005 |
| 2027 | 0.00         | 204 | 0.03 | < 0.005 |

## 5.9. Operational Mobile Sources

## 5.9.1. Unmitigated

| Land Use Type       | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year |
|---------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|----------|
| Total all Land Uses | 12.0          | 0.00           | 0.00         | 3,129      | 20.0        | 0.00         | 0.00       | 5,214    |

## 5.9.2. Mitigated

| Land Use Type       | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year |
|---------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|----------|
| Total all Land Uses | NaN           | NaN            | NaN          | NaN        | NaN         | NaN          | NaN        | NaN      |

# 5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

## 5.10.2. Architectural Coatings

| Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) |         | Non-Residential Exterior Area<br>Coated (sq ft) | Parking Area Coated (sq ft) |
|--|--|---------|---|-----------------------------|
| 0  | 0.00                                     | 134,295 | 44,765  | _                           |

## 5.10.3. Landscape Equipment

| Season      | Unit   | Value |
|-------------|--------|-------|
| Snow Days   | day/yr | 0.00  |
| Summer Days | day/yr | 180   |

## 5.10.4. Landscape Equipment - Mitigated

| Season | Unit | Value |
|--------|------|-------|
| Codoon | OTHE | valuo |

| Snow Days   | day/yr | 0.00 |
|-------------|--------|------|
| Summer Days | day/yr | 180  |

## 5.11. Operational Energy Consumption

## 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

| Land Use                | Electricity (kWh/yr) | CO2 | CH4    | N2O    | Natural Gas (kBTU/yr) |
|-------------------------|----------------------|-----|--------|--------|-----------------------|
| User Defined Industrial | 0.00                 | 204 | 0.0330 | 0.0040 | 0.00                  |

## 5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

| Land Use                | Electricity (kWh/yr) | CO2 | CH4    | N2O    | Natural Gas (kBTU/yr) |
|-------------------------|----------------------|-----|--------|--------|-----------------------|
| User Defined Industrial | 0.00                 | 204 | 0.0330 | 0.0040 | 0.00                  |

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

| Land Use                | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|-------------------------|-------------------------|--------------------------|
| User Defined Industrial | 0.00                    | 0.00                     |

### 5.12.2. Mitigated

| Land Use                | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|-------------------------|-------------------------|--------------------------|
| User Defined Industrial | 0.00                    | 0.00                     |

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

| Land Use                | Waste (ton/year) | Cogeneration (kWh/year) |
|-------------------------|------------------|-------------------------|
| User Defined Industrial | 0.00             | _                       |

## 5.13.2. Mitigated

| Land Use                | Waste (ton/year) | Cogeneration (kWh/year) |
|-------------------------|------------------|-------------------------|
| User Defined Industrial | 0.00             | _                       |

# 5.14. Operational Refrigeration and Air Conditioning Equipment

## 5.14.1. Unmitigated

| Land Use Type | Equipment Type | Refrigerant | GWP | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|---------------|----------------|-------------|-----|---------------|----------------------|-------------------|----------------|
|---------------|----------------|-------------|-----|---------------|----------------------|-------------------|----------------|

## 5.14.2. Mitigated

| Land Use Type | Equipment Type | Refrigerant | GWP | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|---------------|----------------|-------------|-----|---------------|----------------------|-------------------|----------------|
|---------------|----------------|-------------|-----|---------------|----------------------|-------------------|----------------|

## 5.15. Operational Off-Road Equipment

## 5.15.1. Unmitigated

| Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|----------------|-----------|-------------|----------------|---------------|------------|-------------|
|                | - 1 - 21  |             |                |               |            |             |

## 5.15.2. Mitigated

| Equipment Type  | Fuel Type  | Engine Tier  | Number per Day   | Hours Per Day   | Horsepower   | Load Factor  |
|-----------------|------------|--------------|------------------|-----------------|--------------|--------------|
| -daibinent tybe | i dei Type | Lingine riei | Nullibel pel Day | ribuis i ei Day | l iorschower | Luau i aciui |

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type Fuel Type Number per Day Hours per Day Hours per Year Horsepower Load Factor

### 5.16.2. Process Boilers

Equipment Type Fuel Type Number Boiler Rating (MMBtu/hr) Daily Heat Input (MMBtu/day) Annual Heat Input (MMBtu/yr)

### 5.17. User Defined

Equipment Type Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

 Vegetation Land Use Type
 Vegetation Soil Type
 Initial Acres
 Final Acres

### 5.18.1.2. Mitigated

Vegetation Land Use Type Vegetation Soil Type Initial Acres Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type Initial Acres Final Acres

### 5.18.1.2. Mitigated

Biomass Cover Type Initial Acres Final Acres

### 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

| Tree Type | Number    | Electricity Saved (kWh/year)    | Natural Gas Saved (btu/year) |
|-----------|-----------|---------------------------------|------------------------------|
| 1100 1990 | Trainibo. | Liberially Cavea (Kivilly) Cary | ratarar Sas Savoa (Starysar) |

### 5.18.2.2. Mitigated

| Tree Type   Number   Electricity Saved (kWh/year)   Natural Gas Saved (btu/year) |
|--|
|--|

## 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

| Climate Hazard               | Result for Project Location | Unit                                       |
|------------------------------|-----------------------------|--|
| Temperature and Extreme Heat | 27.5                        | annual days of extreme heat                |
| Extreme Precipitation        | 6.90                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | _                           | meters of inundation depth                 |
| Wildfire                     | 0.00                        | annual hectares burned                     |

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi. Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

### 6.2. Initial Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 4              | 1                 | 0                       | N/A                 |
| Extreme Precipitation        | 2              | 2                 | 2                       | 2                   |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | 1              | 4                 | 2                       | 3                   |
| Flooding                     | 1              | 4                 | 0                       | N/A                 |
| Drought                      | 1              | 2                 | 2                       | 2                   |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 5              | 2                 | 2                       | 4                   |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 4              | 1                 | 1                       | 4                   |
| Extreme Precipitation        | 2              | 2                 | 2                       | 2                   |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | 1              | 4                 | 2                       | 3                   |
| Flooding                     | 1              | 4                 | 1                       | 4                   |
| Drought                      | 1              | 2                 | 2                       | 2                   |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 5              | 2                 | 2                       | 4                   |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

| Indicator                       | Result for Project Census Tract |
|---------------------------------|---------------------------------|
| Exposure Indicators             | _                               |
| AQ-Ozone                        | 37.6                            |
| AQ-PM                           | 12.7                            |
| AQ-DPM                          | 31.5                            |
| Drinking Water                  | 37.5                            |
| Lead Risk Housing               | 9.17                            |
| Pesticides                      | 80.8                            |
| Toxic Releases                  | 42.7                            |
| Traffic                         | 50.5                            |
| Effect Indicators               | _                               |
| CleanUp Sites                   | 86.8                            |
| Groundwater                     | 87.8                            |
| Haz Waste Facilities/Generators | 93.6                            |
| Impaired Water Bodies           | 43.8                            |
| Solid Waste                     | 77.6                            |
| Sensitive Population            | _                               |
| Asthma                          | 86.8                            |
| Cardio-vascular                 | 67.5                            |
| Low Birth Weights               | 20.9                            |
| Socioeconomic Factor Indicators | _                               |

| Education    | 46.2 |
|--------------|------|
| Housing      | 17.9 |
| Linguistic   | 25.6 |
| Poverty      | 10.9 |
| Unemployment | 48.3 |

# 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

| Indicator              | Result for Project Census Tract |
|------------------------|---------------------------------|
| Economic               | _                               |
| Above Poverty          | 94.26408315                     |
| Employed               | 49.30065443                     |
| Median HI              | 79.84088284                     |
| Education              | _                               |
| Bachelor's or higher   | 45.52803798                     |
| High school enrollment | 100                             |
| Preschool enrollment   | 37.79032465                     |
| Transportation         | _                               |
| Auto Access            | 93.63531374                     |
| Active commuting       | 3.772616451                     |
| Social                 | _                               |
| 2-parent households    | 88.50250225                     |
| Voting                 | 54.13832927                     |
| Neighborhood           | _                               |
| Alcohol availability   | 81.95816759                     |
| Park access            | 4.619530348                     |
| Retail density         | 10.04747851                     |
| Supermarket access     | 9.790837931                     |

| Tree canopy                                  | 17.28474272 |
|--|-------------|
| Housing                                      | _           |
| Homeownership                                | 66.77787758 |
| Housing habitability                         | 86.03875273 |
| Low-inc homeowner severe housing cost burden | 84.11394842 |
| Low-inc renter severe housing cost burden    | 87.5914282  |
| Uncrowded housing                            | 56.30694213 |
| Health Outcomes                              | _           |
| Insured adults                               | 83.11305017 |
| Arthritis                                    | 60.6        |
| Asthma ER Admissions                         | 18.3        |
| High Blood Pressure                          | 76.3        |
| Cancer (excluding skin)                      | 45.0        |
| Asthma                                       | 55.1        |
| Coronary Heart Disease                       | 81.5        |
| Chronic Obstructive Pulmonary Disease        | 76.7        |
| Diagnosed Diabetes                           | 82.1        |
| Life Expectancy at Birth                     | 50.8        |
| Cognitively Disabled                         | 24.2        |
| Physically Disabled                          | 37.2        |
| Heart Attack ER Admissions                   | 32.3        |
| Mental Health Not Good                       | 64.8        |
| Chronic Kidney Disease                       | 79.8        |
| Obesity                                      | 59.2        |
| Pedestrian Injuries                          | 19.6        |
| Physical Health Not Good                     | 79.7        |
| Stroke                                       | 84.7        |
| Health Risk Behaviors                        | _           |
|  |             |

| Binge Drinking                        | 8.9  |
|---------------------------------------|------|
| Current Smoker                        | 56.8 |
| No Leisure Time for Physical Activity | 74.2 |
| Climate Change Exposures              | _    |
| Wildfire Risk                         | 0.0  |
| SLR Inundation Area                   | 0.0  |
| Children                              | 48.8 |
| Elderly                               | 37.4 |
| English Speaking                      | 87.9 |
| Foreign-born                          | 26.8 |
| Outdoor Workers                       | 23.9 |
| Climate Change Adaptive Capacity      | _    |
| Impervious Surface Cover              | 91.2 |
| Traffic Density                       | 51.7 |
| Traffic Access                        | 23.0 |
| Other Indices                         | _    |
| Hardship                              | 32.8 |
| Other Decision Support                | _    |
| 2016 Voting                           | 69.3 |

# 7.3. Overall Health & Equity Scores

| Metric  | Result for Project Census Tract |  |  |  |  |  |
|---|---------------------------------|--|--|--|--|--|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 56.0                            |  |  |  |  |  |
| Healthy Places Index Score for Project Location (b)                                 | 70.0                            |  |  |  |  |  |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | No                              |  |  |  |  |  |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | No                              |  |  |  |  |  |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |  |  |  |  |  |

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

| Screen                                    | Justification                      |  |  |  |  |  |
|---|------------------------------------|--|--|--|--|--|
| Land Use                                  | Project-specific data              |  |  |  |  |  |
| Construction: Construction Phases         | Project-specific construction data |  |  |  |  |  |
| Construction: Off-Road Equipment          | Project-specific construction data |  |  |  |  |  |
| Construction: Dust From Material Movement | Project-specific construction data |  |  |  |  |  |
| Construction: Architectural Coatings      | Project-specific construction data |  |  |  |  |  |
| Construction: Trips and VMT               | Project-specific data              |  |  |  |  |  |
| Construction: On-Road Fugitive Dust       | Project-specific assumptions       |  |  |  |  |  |
| Operations: Road Dust                     | Project-specific assumption        |  |  |  |  |  |

# **ATTACHMENT B: DISPERSION MODELING**

### Local Ambient Air Quality Monitoring Data Used for NAAQS/CAAQS Comparison

| Pollutant          | Averaging<br>Period | Rank                         | Monitor Site ID | Location Description      | Units | 2022 | 2023 | 2024             | Proposed<br>Background<br>(µg/m3) |
|--------------------|---------------------|------------------------------|-----------------|---------------------------|-------|------|------|------------------|-----------------------------------|
| CO                 | 1-hour              | 2 <sup>nd</sup> high Maximum | 06-067-0015     | Sacramento-Bercut Drive   | ppm   | 1.8  | 1.6  | 1.4              | 2061.0                            |
| NO                 | 1-hour              | 98th Percentile Average      | 06-113-0004     | Davis-UCD Campus          | ppb   | 23   | 18   | 17               | 36.3                              |
| $NO_2$             | Annual              | Maximum                      | 06-113-0004     | Davis-UCD Campus          | ppb   | 3.99 | 3.36 | 3.25             | 7.5                               |
| PM <sub>10</sub>   | 24-hour             | 2 <sup>nd</sup> high Maximum | 06-095-3001     | Vacaville-Merchant Street | µg/m3 | 30   | 32   | 25               | 32                                |
| PIVI <sub>10</sub> | Annual              | Maximum                      | 06-095-3001     | Vacaville-Merchant Street | µg/m3 | 12.3 | *    | NA <sup>1/</sup> | 182/                              |
| DM                 | 24-hour             | 98th Percentile Average      | 06-067-0010     | Sacramento-1309 T Street  | µg/m3 | 29   | 23   | 24               | 25                                |
| PM <sub>2.5</sub>  | Annual              | Average                      | 06-067-0010     | Sacramento-1309 T Street  | µg/m3 | 8.6  | 7.1  | 6.9              | 7.5                               |

Notes:  $\mu g/m^3$  – microgram per cubic meter; CAAQS – California Ambient Air Quality Standards; NAAQS – National Ambient Air Quality Standards; ppb – parts per billion 1/2024 data not available.

2/ Due to insufficient data for preceding years, the following years were chosen to calculate the proposed background:

2017: 18.3 µg/m3 2018: 17.6 µg/m3

Sources: CARB (2024b) and EPA (2024c)

<sup>\*</sup> means that there was insufficient data available to determine the value.

Corby BESS - 1 Hr NO2 Construction (Mitigated)

### NO2 - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak      | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|-----------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 181.82217 | ug/m^3 | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        |                          |
| 1-HR                | 8TH  | 139.81389 | ug/m^3 | 595265.67 | 4249973.82 | 23.57        | 0.00         | 23.57        |                          |
| 1-HR                | 1ST  | 181.82217 |        | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        |                          |

### NO2 - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak      | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|-----------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 132.38547 | ug/m^3 | 595532.85 | 4250212.93 | 23.03        | 0.00         | 23.03        |                          |
| 1-HR                | 8TH  | 113.59564 | ug/m^3 | 595534.73 | 4250037.42 | 22.93        | 0.00         | 22.93        |                          |

### NO2 - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak      | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|-----------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 100.72904 | ug/m^3 | 594666.20 | 4250239.88 | 24.84        | 0.00         | 24.84        |                          |
| 1-HR                | 8TH  | 60.43168  | ug/m^3 | 594684.29 | 4250241.60 | 24.82        | 0.00         | 24.82        |                          |

AERMOD View by Lakes Environmental Software RS - 1 of 2 4/25/2025

Corby BESS - 1 Hr NO2 Construction (Mitigated)

### NO2 - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak      | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|-----------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 111.93331 | ug/m^3 | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        |                          |
| 1-HR                | 8TH  | 81.33689  | ug/m^3 | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        |                          |

AERMOD View by Lakes Environmental Software RS - 2 of 2 4/25/2025

Corby BESS - Annual NO2 Construction (Mitigated)

### NO2 - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 2.07045 | ug/m^3 | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y1           |      | 2.17919 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y2           |      | 2.08247 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y3           |      | 1.99961 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y4           |      | 1.98706 |        | 595417.09 | 4250230.96 | 23.58        | 0.00         | 23.58        |                          |
| ANNUAL Y5           |      | 2.11844 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |

### NO2 - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 1.50355 | ug/m^3 | 595455.61 | 4250231.45 | 23.56        | 0.00         | 23.56        |                          |
| ANNUAL Y1           |      | 1.56506 |        | 595455.61 | 4250231.45 | 23.56        | 0.00         | 23.56        |                          |
| ANNUAL Y2           |      | 1.51037 |        | 595455.61 | 4250231.45 | 23.56        | 0.00         | 23.56        |                          |
| ANNUAL Y3           |      | 1.43401 |        | 595535.15 | 4249998.42 | 22.93        | 0.00         | 22.93        |                          |
| ANNUAL Y4           |      | 1.48886 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y5           |      | 1.54615 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |

AERMOD View by Lakes Environmental Software 4/15/2025

Corby BESS - Annual NO2 Construction (Mitigated)

### NO2 - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.59766 | ug/m^3 | 594634.53 | 4250901.37 | 24.73        | 0.00         | 24.73        |                          |
| ANNUAL Y1           |      | 0.59932 |        | 594634.53 | 4250901.37 | 24.73        | 0.00         | 24.73        |                          |
| ANNUAL Y2           |      | 0.60284 |        | 594634.53 | 4250901.37 | 24.73        | 0.00         | 24.73        |                          |
| ANNUAL Y3           |      | 0.60216 |        | 594697.56 | 4250517.62 | 25.08        | 0.00         | 25.08        |                          |
| ANNUAL Y4           |      | 0.61878 |        | 594634.53 | 4250901.37 | 24.73        | 0.00         | 24.73        |                          |
| ANNUAL Y5           |      | 0.59476 |        | 594634.53 | 4250901.37 | 24.73        | 0.00         | 24.73        |                          |

### NO2 - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.56469 | ug/m^3 | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        |                          |
| ANNUAL Y1           |      | 0.61993 |        | 595265.07 | 4250031.92 | 23.56        | 0.00         | 23.56        |                          |
| ANNUAL Y2           |      | 0.56268 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y3           |      | 0.58167 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y4           |      | 0.56607 |        | 595264.67 | 4250070.65 | 23.58        | 0.00         | 23.58        |                          |
| ANNUAL Y5           |      | 0.65834 |        | 595264.67 | 4250070.65 | 23.58        | 0.00         | 23.58        |                          |

Corby BESS - CO Construction (Mitigated)

### CO - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak       | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|------------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 2148.25067 | ug/m^3 | 595264.06 | 4250128.74 | 23.60        | 0.00         | 23.60        | 11/14/2018, 8            |
| 8-HR                | 1ST  | 419.48463  | ug/m^3 | 595265.07 | 4250031.92 | 23.56        | 0.00         | 23.56        | 1/12/2021, 24            |
| 1-HR                | 2ND  | 1830.23585 | ug/m^3 | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        | 11/28/2017, 8            |
| 8-HR                | 2ND  | 391.47620  | ug/m^3 | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        | 12/28/2021, 24           |

### CO - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak       | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|------------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 1564.20601 | ug/m^3 | 595404.21 | 4249626.58 | 22.98        | 0.00         | 22.98        | 2/28/2020, 8             |
| 8-HR                | 1ST  | 293.43998  | ug/m^3 | 595404.21 | 4249626.58 | 22.98        | 0.00         | 22.98        | 12/24/2019, 24           |
| 1-HR                | 2ND  | 1544.47658 | ug/m^3 | 595365.66 | 4249626.20 | 23.05        | 0.00         | 23.05        | 10/31/2017, 8            |
| 8-HR                | 2ND  | 269.77434  | ug/m^3 | 595404.21 | 4249626.58 | 22.98        | 0.00         | 22.98        | 12/11/2019, 16           |

### CO - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak      | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|-----------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 635.94376 | ug/m^3 | 594666.20 | 4250239.88 | 24.84        | 0.00         | 24.84        | 2/28/2020, 8             |
| 8-HR                | 1ST  | 99.45149  | ug/m^3 | 594622.70 | 4251028.54 | 25.07        | 0.00         | 25.07        | 1/12/2017, 24            |
| 1-HR                | 2ND  | 588.82170 | ug/m^3 | 594666.20 | 4250239.88 | 24.84        | 0.00         | 24.84        | 10/31/2017, 8            |
| 8-HR                | 2ND  | 92.79333  | ug/m^3 | 594648.93 | 4250983.89 | 26.15        | 0.00         | 26.15        | 1/12/2017, 24            |

AERMOD View by Lakes Environmental Software RS - 1 of 2 4/25/2025

Corby BESS - CO Construction (Mitigated)

### CO - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak       | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|------------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 1010.29916 | ug/m^3 | 595264.06 | 4250128.74 | 23.60        | 0.00         | 23.60        | 11/14/2018, 8            |
| 8-HR                | 1ST  | 212.29317  | ug/m^3 | 595265.07 | 4250031.92 | 23.56        | 0.00         | 23.56        | 1/12/2021, 24            |
| 1-HR                | 2ND  | 905.59007  | ug/m^3 | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        | 11/28/2017, 8            |
| 8-HR                | 2ND  | 178.08108  | ug/m^3 | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        | 12/28/2021, 24           |

AERMOD View by Lakes Environmental Software RS - 2 of 2 4/25/2025

Corby BESS - 24hr PM 2.5 Construction (Mitigated)

### PM-2.5 NAAQS - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 1.12101 | ug/m^3 | 595365.66 | 4249626.20 | 23.05        | 0.00         | 23.05        |                          |
| 24-HR               | 8TH  | 0.77554 | ug/m^3 | 595265.67 | 4249973.82 | 23.57        | 0.00         | 23.57        |                          |

### PM-2.5 NAAQS - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 1.08175 | ug/m^3 | 595365.66 | 4249626.20 | 23.05        | 0.00         | 23.05        |                          |
| 24-HR               | 8TH  | 0.70159 | ug/m^3 | 595267.08 | 4249838.27 | 23.44        | 0.00         | 23.44        |                          |

#### PM-2.5 NAAQS - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 0.41378 | ug/m^3 | 594666.20 | 4250239.88 | 24.84        | 0.00         | 24.84        |                          |
| 24-HR               | 8TH  | 0.26416 | ug/m^3 | 594628.22 | 4250515.17 | 25.20        | 0.00         | 25.20        |                          |

### PM-2.5 NAAQS - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 0.23949 | ug/m^3 | 595264.67 | 4250070.65 | 23.58        | 0.00         | 23.58        |                          |
| 24-HR               | 8TH  | 0.10866 | ug/m^3 | 595265.07 | 4250031.92 | 23.56        | 0.00         | 23.56        |                          |

Corby BESS - Annual PM 2.5 Construction(Mitigated)

### PM-2.5 NAAQS - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.07248 | ug/m^3 | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |

### PM-2.5 NAAQS - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.06577 | ug/m^3 | 595455.61 | 4250231.45 | 23.56        | 0.00         | 23.56        |                          |

### PM-2.5 NAAQS - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.01774 | ug/m^3 | 594634.53 | 4250901.37 | 24.73        | 0.00         | 24.73        |                          |

### PM-2.5 NAAQS - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00652 | ug/m^3 | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        |                          |

Corby BESS - 24 hr PM10 Construction (Mitigated)

### PM10 - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 7.31222 | ug/m^3 | 595462.03 | 4249627.15 | 22.86        | 0.00         | 22.86        | 12/20/2019, 24           |
| 24-HR               | 2ND  | 6.99804 | ug/m^3 | 595404.21 | 4249626.58 | 22.98        | 0.00         | 22.98        | 12/24/2019, 24           |
| 24-HR               | 6TH  | 5.77326 | ug/m^3 | 595384.94 | 4249626.39 | 23.02        | 0.00         | 23.02        | 1/15/2021, 24            |

### PM10 - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 7.14491 | ug/m^3 | 595462.03 | 4249627.15 | 22.86        | 0.00         | 22.86        | 12/20/2019, 24           |
| 24-HR               | 2ND  | 6.84255 | ug/m^3 | 595404.21 | 4249626.58 | 22.98        | 0.00         | 22.98        | 12/20/2019, 24           |
| 24-HR               | 6TH  | 5.65653 | ug/m^3 | 595404.21 | 4249626.58 | 22.98        | 0.00         | 22.98        | 12/11/2019, 24           |

### PM10 - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 3.23166 | ug/m^3 | 594684.29 | 4250241.60 | 24.82        | 0.00         | 24.82        | 12/20/2019, 24           |
| 24-HR               | 2ND  | 2.72640 | ug/m^3 | 594648.11 | 4250238.15 | 24.85        | 0.00         | 24.85        | 1/23/2020, 24            |
| 24-HR               | 6TH  | 2.38849 | ug/m^3 | 594666.20 | 4250239.88 | 24.84        | 0.00         | 24.84        | 12/4/2019, 24            |

Corby BESS - 24 hr PM10 Construction (Mitigated)

### PM10 - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 0.32706 | ug/m^3 | 595264.67 | 4250070.65 | 23.58        | 0.00         | 23.58        | 12/28/2021, 24           |
| 24-HR               | 2ND  | 0.30504 | ug/m^3 | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        | 1/12/2021, 24            |
| 24-HR               | 6TH  | 0.18916 | ug/m^3 | 595264.67 | 4250070.65 | 23.58        | 0.00         | 23.58        | 12/1/2017, 24            |

AERMOD View by Lakes Environmental Software RS - 2 of 2 4/25/2025

Corby BESS - Annual PM10 Construction (Mitigated)

### PM10 - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.25904 | ug/m^3 | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y1           |      | 0.27002 |        | 595455.61 | 4250231.45 | 23.56        | 0.00         | 23.56        |                          |
| ANNUAL Y2           |      | 0.26012 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y3           |      | 0.24401 |        | 595455.61 | 4250231.45 | 23.56        | 0.00         | 23.56        |                          |
| ANNUAL Y4           |      | 0.25633 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y5           |      | 0.26635 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |

### PM10 - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.25094 | ug/m^3 | 595455.61 | 4250231.45 | 23.56        | 0.00         | 23.56        |                          |
| ANNUAL Y1           |      | 0.26121 |        | 595455.61 | 4250231.45 | 23.56        | 0.00         | 23.56        |                          |
| ANNUAL Y2           |      | 0.25208 |        | 595455.61 | 4250231.45 | 23.56        | 0.00         | 23.56        |                          |
| ANNUAL Y3           |      | 0.23933 |        | 595535.15 | 4249998.42 | 22.93        | 0.00         | 22.93        |                          |
| ANNUAL Y4           |      | 0.24849 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y5           |      | 0.25805 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |

4/15/2025

Corby BESS - Annual PM10 Construction (Mitigated)

### PM10 - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.09824 | ug/m^3 | 594634.53 | 4250901.37 | 24.73        | 0.00         | 24.73        |                          |
| ANNUAL Y1           |      | 0.09851 |        | 594634.53 | 4250901.37 | 24.73        | 0.00         | 24.73        |                          |
| ANNUAL Y2           |      | 0.09909 |        | 594634.53 | 4250901.37 | 24.73        | 0.00         | 24.73        |                          |
| ANNUAL Y3           |      | 0.09898 |        | 594697.56 | 4250517.62 | 25.08        | 0.00         | 25.08        |                          |
| ANNUAL Y4           |      | 0.10171 |        | 594634.53 | 4250901.37 | 24.73        | 0.00         | 24.73        |                          |
| ANNUAL Y5           |      | 0.09776 |        | 594634.53 | 4250901.37 | 24.73        | 0.00         | 24.73        |                          |

### PM10 - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00652 | ug/m^3 | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        |                          |
| ANNUAL Y1           |      | 0.00715 |        | 595265.07 | 4250031.92 | 23.56        | 0.00         | 23.56        |                          |
| ANNUAL Y2           |      | 0.00649 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y3           |      | 0.00671 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y4           |      | 0.00653 |        | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        |                          |
| ANNUAL Y5           |      | 0.00760 |        | 595264.67 | 4250070.65 | 23.58        | 0.00         | 23.58        |                          |

4/15/2025

Corby BESS - 1hr SO2 Construction (Mitigated)

### SO2 - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 1.79103 | ug/m^3 | 595264.67 | 4250070.65 | 23.58        | 0.00         | 23.58        |                          |
| 1-HR                | 4TH  | 1.47017 | ug/m^3 | 595301.54 | 4250229.49 | 23.75        | 0.00         | 23.75        |                          |

### SO2 - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 1.32185 | ug/m^3 | 595462.03 | 4249627.15 | 22.86        | 0.00         | 22.86        |                          |
| 1-HR                | 4TH  | 1.05100 | ug/m^3 | 595513.38 | 4250232.18 | 23.45        | 0.00         | 23.45        |                          |

### SO2 - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 0.84479 | ug/m^3 | 594666.20 | 4250239.88 | 24.84        | 0.00         | 24.84        |                          |
| 1-HR                | 4TH  | 0.60077 | ug/m^3 | 594684.29 | 4250241.60 | 24.82        | 0.00         | 24.82        |                          |

### SO2 - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 0.97061 | ug/m^3 | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        |                          |
| 1-HR                | 4TH  | 0.74450 | ug/m^3 | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        |                          |

Corby BESS - 24 hr SO2 Construction (Mitigated)

### SO2 - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 0.24503 | ug/m^3 | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        | 1/12/2021, 24            |
| 24-HR               | 2ND  | 0.23635 | ug/m^3 | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        | 12/28/2021, 24           |

### SO2 - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 0.18167 | ug/m^3 | 595462.03 | 4249627.15 | 22.86        | 0.00         | 22.86        | 12/20/2019, 24           |
| 24-HR               | 2ND  | 0.17398 | ug/m^3 | 595404.21 | 4249626.58 | 22.98        | 0.00         | 22.98        | 12/20/2019, 24           |

### SO2 - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 0.09979 | ug/m^3 | 594684.29 | 4250241.60 | 24.82        | 0.00         | 24.82        | 12/20/2019, 24           |
| 24-HR               | 2ND  | 0.08419 | ug/m^3 | 594648.11 | 4250238.15 | 24.85        | 0.00         | 24.85        | 1/23/2020, 24            |

### SO2 - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 0.12348 | ug/m^3 | 595264.67 | 4250070.65 | 23.58        | 0.00         | 23.58        | 12/28/2021, 24           |
| 24-HR               | 2ND  | 0.11517 | ug/m^3 | 595264.87 | 4250051.28 | 23.66        | 0.00         | 23.66        | 1/12/2021, 24            |

Corby BESS - Annual SO2 Construction (Mitigated)

### SO2 - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 0.09695 | ug/m^3 | 595264.67 | 4250070.65 | 23.58        | 0.00         | 23.58        | 12/28/2021, 24           |

### SO2 - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 0.04588 | ug/m^3 | 595462.03 | 4249627.15 | 22.86        | 0.00         | 22.86        | 12/20/2019, 24           |

### SO2 - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 0.02405 | ug/m^3 | 594684.29 | 4250241.60 | 24.82        | 0.00         | 24.82        | 12/20/2019, 24           |

### SO2 - Concentration - Source Group: SUBSTN

| Averaging Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR            | 1ST  | 0.06675 | ug/m^3 | 595264.67 | 4250070.65 | 23.58        | 0.00         | 23.58        | 12/28/2021, 24           |

AERMOD View by Lakes Environmental Software RS - 1 of 1 4/25/2025

Corby BESS - 1 hr NO2 Operations

#### NO2 - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 0.22699 | ug/m^3 | 595462.03 | 4249627.15 | 22.86        | 0.00         | 22.86        |                          |
| 1-HR                | 8TH  | 0.15234 | ug/m^3 | 595513.38 | 4250232.18 | 23.45        | 0.00         | 23.45        |                          |

#### NO2 - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 0.22699 | ug/m^3 | 595462.03 | 4249627.15 | 22.86        | 0.00         | 22.86        |                          |
| 1-HR                | 8TH  | 0.15234 | ug/m^3 | 595513.38 | 4250232.18 | 23.45        | 0.00         | 23.45        |                          |

#### NO2 - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| 1-HR                | 8TH  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

### NO2 - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| 1-HR                | 8TH  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

Corby BESS - Annual NO2 Operations

#### NO2 - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00300 | ug/m^3 | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y1           |      | 0.00312 | ug/m^3 | 595455.61 | 4250231.45 | 23.56        | 0.00         | 23.56        |                          |
| ANNUAL Y2           |      | 0.00301 | ug/m^3 | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y3           |      | 0.00286 | ug/m^3 | 595534.94 | 4250017.92 | 22.93        | 0.00         | 22.93        |                          |
| ANNUAL Y4           |      | 0.00297 | ug/m^3 | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y5           |      | 0.00309 | ug/m^3 | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |

### NO2 - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00300 | ug/m^3 | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y1           |      | 0.00312 | ug/m^3 | 595455.61 | 4250231.45 | 23.56        | 0.00         | 23.56        |                          |
| ANNUAL Y2           |      | 0.00301 | ug/m^3 | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y3           |      | 0.00286 | ug/m^3 | 595534.94 | 4250017.92 | 22.93        | 0.00         | 22.93        |                          |
| ANNUAL Y4           |      | 0.00297 | ug/m^3 | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y5           |      | 0.00309 | ug/m^3 | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |

Corby BESS - Annual NO2 Operations

### NO2 - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y1           |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y2           |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y3           |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y4           |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y5           |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

#### NO2 - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y1           |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y2           |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y3           |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y4           |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y5           |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

4/25/2025

Corby BESS - CO Operations

#### CO - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak     | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|----------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 32.96901 | ug/m^3 | 595404.21 | 4249626.58 | 22.98        | 0.00         | 22.98        | 2/28/2020, 8             |
| 8-HR                | 1ST  | 6.18488  | ug/m^3 | 595404.21 | 4249626.58 | 22.98        | 0.00         | 22.98        | 12/24/2019, 24           |
| 1-HR                | 2ND  | 32.55317 | ug/m^3 | 595365.66 | 4249626.20 | 23.05        | 0.00         | 23.05        | 10/31/2017, 8            |
| 8-HR                | 2ND  | 5.68607  | ug/m^3 | 595404.21 | 4249626.58 | 22.98        | 0.00         | 22.98        | 12/11/2019, 16           |

#### CO - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak     | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|----------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 32.96901 | ug/m^3 | 595404.21 | 4249626.58 | 22.98        | 0.00         | 22.98        | 2/28/2020, 8             |
| 8-HR                | 1ST  | 6.18488  | ug/m^3 | 595404.21 | 4249626.58 | 22.98        | 0.00         | 22.98        | 12/24/2019, 24           |
| 1-HR                | 2ND  | 32.55317 | ug/m^3 | 595365.66 | 4249626.20 | 23.05        | 0.00         | 23.05        | 10/31/2017, 8            |
| 8-HR                | 2ND  | 5.68607  | ug/m^3 | 595404.21 | 4249626.58 | 22.98        | 0.00         | 22.98        | 12/11/2019, 16           |

#### CO - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| 8-HR                | 1ST  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| 1-HR                | 2ND  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| 8-HR                | 2ND  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

Corby BESS - CO Operations

### CO - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| 8-HR                | 1ST  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| 1-HR                | 2ND  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| 8-HR                | 2ND  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

Corby BESS - 24 hr PM 2.5 Operations

#### PM-2.5 NAAQS - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 8TH  | 0.00255 | ug/m^3 | 595267.08 | 4249838.27 | 23.44        | 0.00         | 23.44        |                          |

#### PM-2.5 NAAQS - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 8TH  | 0.00255 | ug/m^3 | 595267.08 | 4249838.27 | 23.44        | 0.00         | 23.44        |                          |

#### PM-2.5 NAAQS - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 8TH  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

#### PM-2.5 NAAQS - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 8TH  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

Corby BESS - Annual PM 2.5 Operations

#### PM-2.5 NAAQS - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00050 | ug/m^3 | 595417.09 | 4250230.96 | 23.58        | 0.00         | 23.58        |                          |
| ANNUAL Y1           |      | 0.00052 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y2           |      | 0.00050 |        | 595417.09 | 4250230.96 | 23.58        | 0.00         | 23.58        |                          |
| ANNUAL Y3           |      | 0.00048 |        | 595534.94 | 4250017.92 | 22.93        | 0.00         | 22.93        |                          |
| ANNUAL Y4           |      | 0.00050 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y5           |      | 0.00051 |        | 595397.83 | 4250230.71 | 23.61        | 0.00         | 23.61        |                          |

#### PM-2.5 NAAQS - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00050 | ug/m^3 | 595417.09 | 4250230.96 | 23.58        | 0.00         | 23.58        |                          |
| ANNUAL Y1           |      | 0.00052 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y2           |      | 0.00050 |        | 595417.09 | 4250230.96 | 23.58        | 0.00         | 23.58        |                          |
| ANNUAL Y3           |      | 0.00048 |        | 595534.94 | 4250017.92 | 22.93        | 0.00         | 22.93        |                          |
| ANNUAL Y4           |      | 0.00050 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y5           |      | 0.00051 |        | 595397.83 | 4250230.71 | 23.61        | 0.00         | 23.61        |                          |

Corby BESS - Annual PM 2.5 Operations

### PM-2.5 NAAQS - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y1           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y2           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y3           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y4           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y5           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

#### PM-2.5 NAAQS - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y1           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y2           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y3           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y4           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y5           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

Corby BESS - 24 hr PM10 Operations

#### PM10 - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 0.00642 | ug/m^3 | 595481.31 | 4249627.33 | 22.82        | 0.00         | 22.82        | 12/20/2019, 24           |

#### PM10 - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 0.00642 | ug/m^3 | 595481.31 | 4249627.33 | 22.82        | 0.00         | 22.82        | 12/20/2019, 24           |

#### PM10 - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

### PM10 - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

Corby BESS - Annual PM10 Operations

#### PM10 - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00063 | ug/m^3 | 595455.61 | 4250231.45 | 23.56        | 0.00         | 23.56        |                          |
| ANNUAL Y1           |      | 0.00065 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y2           |      | 0.00063 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y3           |      | 0.00060 |        | 595534.94 | 4250017.92 | 22.93        | 0.00         | 22.93        |                          |
| ANNUAL Y4           |      | 0.00062 |        | 595417.09 | 4250230.96 | 23.58        | 0.00         | 23.58        |                          |
| ANNUAL Y5           |      | 0.00064 |        | 595417.09 | 4250230.96 | 23.58        | 0.00         | 23.58        |                          |

#### PM10 - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00063 | ug/m^3 | 595455.61 | 4250231.45 | 23.56        | 0.00         | 23.56        |                          |
| ANNUAL Y1           |      | 0.00065 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y2           |      | 0.00063 |        | 595436.35 | 4250231.21 | 23.57        | 0.00         | 23.57        |                          |
| ANNUAL Y3           |      | 0.00060 |        | 595534.94 | 4250017.92 | 22.93        | 0.00         | 22.93        |                          |
| ANNUAL Y4           |      | 0.00062 |        | 595417.09 | 4250230.96 | 23.58        | 0.00         | 23.58        |                          |
| ANNUAL Y5           |      | 0.00064 |        | 595417.09 | 4250230.96 | 23.58        | 0.00         | 23.58        |                          |

Corby BESS - Annual PM10 Operations

### PM10 - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y1           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y2           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y3           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y4           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y5           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

#### PM10 - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y1           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y2           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y3           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y4           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y5           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

Corby BESS - 1 hr SO2 Operations

#### SO2 - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 0.00163 | ug/m^3 | 595481.31 | 4249627.33 | 22.82        | 0.00         | 22.82        |                          |
| 1-HR                | 4TH  | 0.00130 | ug/m^3 | 595513.38 | 4250232.18 | 23.45        | 0.00         | 23.45        |                          |

#### SO2 - Concentration - Source Group: BESS

| Averaging<br>Period | Rank   | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|--------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-                  | HR 1ST | 0.00163 | ug/m^3 | 595481.31 | 4249627.33 | 22.82        | 0.00         | 22.82        |                          |
| 1-                  | HR 4TH | 0.00130 | ug/m^3 | 595513.38 | 4250232.18 | 23.45        | 0.00         | 23.45        |                          |

## SO2 - Concentration - Source Group: GENTIE

| 4 | Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
|   | 1-HR                | 1ST  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
|   | 1-HR                | 4TH  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

#### SO2 - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 1-HR                | 1ST  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| 1-HR                | 4TH  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

Corby BESS - 24 hr SO2 Operations

#### SO2 - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 0.00022 | ug/m^3 | 595500.58 | 4249627.52 | 22.77        | 0.00         | 22.77        | 12/20/2019, 24           |
| 24-HR               | 2ND  | 0.00021 | ug/m^3 | 595442.76 | 4249626.96 | 22.90        | 0.00         | 22.90        | 12/24/2019, 24           |

#### SO2 - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 0.00022 | ug/m^3 | 595500.58 | 4249627.52 | 22.77        | 0.00         | 22.77        | 12/20/2019, 24           |
| 24-HR               | 2ND  | 0.00021 | ug/m^3 | 595442.76 | 4249626.96 | 22.90        | 0.00         | 22.90        | 12/24/2019, 24           |

#### SO2 - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank   | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|--------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24                  | HR 1ST | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| 24                  | HR 2ND | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

#### SO2 - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| 24-HR               | 1ST  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| 24-HR               | 2ND  | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

Corby BESS - Annual SO2 Operations

#### SO2 - Concentration - Source Group: ALL

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00002 | ug/m^3 | 595301.54 | 4250229.49 | 23.75        | 0.00         | 23.75        |                          |
| ANNUAL Y1           |      | 0.00002 |        | 595301.54 | 4250229.49 | 23.75        | 0.00         | 23.75        |                          |
| ANNUAL Y2           |      | 0.00002 |        | 595301.54 | 4250229.49 | 23.75        | 0.00         | 23.75        |                          |
| ANNUAL Y3           |      | 0.00002 |        | 595320.80 | 4250229.74 | 23.73        | 0.00         | 23.73        |                          |
| ANNUAL Y4           |      | 0.00002 |        | 595301.54 | 4250229.49 | 23.75        | 0.00         | 23.75        |                          |
| ANNUAL Y5           |      | 0.00002 |        | 595301.54 | 4250229.49 | 23.75        | 0.00         | 23.75        |                          |

#### SO2 - Concentration - Source Group: BESS

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00002 | ug/m^3 | 595301.54 | 4250229.49 | 23.75        | 0.00         | 23.75        |                          |
| ANNUAL Y1           |      | 0.00002 |        | 595301.54 | 4250229.49 | 23.75        | 0.00         | 23.75        |                          |
| ANNUAL Y2           |      | 0.00002 |        | 595301.54 | 4250229.49 | 23.75        | 0.00         | 23.75        |                          |
| ANNUAL Y3           |      | 0.00002 |        | 595320.80 | 4250229.74 | 23.73        | 0.00         | 23.73        |                          |
| ANNUAL Y4           |      | 0.00002 |        | 595301.54 | 4250229.49 | 23.75        | 0.00         | 23.75        |                          |
| ANNUAL Y5           |      | 0.00002 |        | 595301.54 | 4250229.49 | 23.75        | 0.00         | 23.75        |                          |

Corby BESS - Annual SO2 Operations

### SO2 - Concentration - Source Group: GENTIE

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y1           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y2           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y3           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y4           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y5           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

### SO2 - Concentration - Source Group: SUBSTN

| Averaging<br>Period | Rank | Peak    | Units  | X<br>(m)  | Y<br>(m)   | ZELEV<br>(m) | ZFLAG<br>(m) | ZHILL<br>(m) | Peak Date,<br>Start Hour |
|---------------------|------|---------|--------|-----------|------------|--------------|--------------|--------------|--------------------------|
| ANNUAL              |      | 0.00000 | ug/m^3 | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y1           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y2           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y3           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y4           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |
| ANNUAL Y5           |      | 0.00000 |        | 592106.19 | 4247461.00 | 29.14        | 0.00         | 29.14        |                          |

| Air | Quality | and Gre | enhouse | Gas | Technical | Report |
|-----|---------|---------|---------|-----|-----------|--------|
|     |         |         |         |     |           |        |

Corby Battery Energy Storage System Project

## **ATTACHMENT C: HEALTH RISK ASSESSMENT**

```
2
3
    GLCs loaded successfully
4
    Pollutants loaded successfully
5
    *********
    RISK SCENARIO SETTINGS
7
8
    Receptor Type: Resident
9
    Scenario: All
   Calculation Method: Derived
10
11
    *****
12
1.3
   EXPOSURE DURATION PARAMETERS FOR CANCER
14
15
    Start Age: -0.25
16
    Total Exposure Duration: 1
17
18
   Exposure Duration Bin Distribution
   3rd Trimester Bin: 0.25
19
20
   0<2 Years Bin: 1
   2<9 Years Bin: 0
21
22 2<16 Years Bin: 0
23 16<30 Years Bin: 0
24 16 to 70 Years Bin: 0
25
    *********
26
27
   PATHWAYS ENABLED
28
29
   NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways
    are only used for cancer and noncancer chronic assessments.
30
31
   Inhalation: True
32
   Soil: True
33 Dermal: True
34 Mother's milk: True
35 Water: False
36 Fish: False
37
   Homegrown crops: False
38 Beef: False
   Dairy: False
39
40
   Pig: False
    Chicken: False
41
42
    Egg: False
43
    ********
44
45
    INHALATION
46
47
    Daily breathing rate: LongTerm24HR
48
49
    **Worker Adjustment Factors**
50
    Worker adjustment factors enabled: NO
51
52
    **Fraction at time at home**
53
    3rd Trimester to 16 years: OFF
54
    16 years to 70 years: OFF
55
    ********
56
57
    SOIL & DERMAL PATHWAY SETTINGS
58
59
    Deposition rate (m/s): 0.05
60
    Soil mixing depth (m): 0.01
61
    Dermal climate: Mixed
62
    ********
63
64
    TIER 2 SETTINGS
```

HARP2 - HRACalc (dated 22118) 4/16/2025 6:35:04 PM - Output Log

1

- 66 Tier2 adjustments were used in this assessment. Please see the input file for details.
- Tier2 What was changed: ED or start age changed
- 68 Calculating cancer risk
- 69 Cancer risk saved to:
  - C:\Users\s.sridharan\Documents\CEQA\CORBY\HARP2\CorbyBESSMEIRCancerRisk.csv
- 70 Calculating chronic risk
- 71 Chronic risk saved to:
  - $\verb|C:\Users\s.srid| haran \verb|\Documents\CEQA\CORBY\HARP2\CorbyBESSMEIRNCC hronicRisk.csv| with the control of t$
  - 72 Calculating acute risk
  - 73 Acute risk saved to:
  - C:\Users\s.sridharan\Documents\CEQA\CORBY\HARP2\CorbyBESSMEIRNCAcuteRisk.csv
  - 74 HRA ran successfully

```
2
3
    GLCs loaded successfully
4
    Pollutants loaded successfully
5
    *********
    RISK SCENARIO SETTINGS
7
8
    Receptor Type: Worker
9
    Scenario: All
    Calculation Method: HighEnd
10
11
    *******
12
1.3
   EXPOSURE DURATION PARAMETERS FOR CANCER
14
15
    Start Age: 16
16
    Total Exposure Duration: 1
17
18
   Exposure Duration Bin Distribution
   3rd Trimester Bin: 0
19
20
   0<2 Years Bin: 0
   2<9 Years Bin: 0
21
22 2<16 Years Bin: 0
23 16<30 Years Bin: 1
24 16 to 70 Years Bin: 0
25
    ********
26
27
   PATHWAYS ENABLED
28
29
   NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways
    are only used for cancer and noncancer chronic assessments.
30
31
   Inhalation: True
32
   Soil: True
33 Dermal: True
34 Mother's milk: False
35 Water: False
36 Fish: False
37
   Homegrown crops: False
38 Beef: False
   Dairy: False
39
40
   Pig: False
    Chicken: False
41
42
    Egg: False
43
    ********
44
45
    INHALATION
46
47
    Daily breathing rate: Moderate8HR
48
49
    **Worker Adjustment Factors**
50
    Worker adjustment factors enabled: NO
51
52
    **Fraction at time at home**
53
    3rd Trimester to 16 years: OFF
54
    16 years to 70 years: OFF
55
    ********
56
57
    SOIL & DERMAL PATHWAY SETTINGS
58
59
    Deposition rate (m/s): 0.05
60
    Soil mixing depth (m): 0.01
61
    Dermal climate: Mixed
62
    ********
63
64
    TIER 2 SETTINGS
```

HARP2 - HRACalc (dated 22118) 4/16/2025 6:38:11 PM - Output Log

1

- 66 Tier2 adjustments were used in this assessment. Please see the input file for details.
- Tier2 What was changed: ED or start age changed
- 68 Calculating cancer risk
- 69 Cancer risk saved to:
  - C:\Users\s.sridharan\Documents\CEQA\CORBY\HARP2\CorbyBESSMEIWCancerRisk.csv
- 70 Calculating chronic risk
- 71 Chronic risk saved to:
  - C:\Users\s.sridharan\Documents\CEQA\CORBY\HARP2\CorbyBESSMEIWNCChronicRisk.csv
- 72 Calculating acute risk
- 73 Acute risk saved to:
- C:\Users\s.sridharan\Documents\CEQA\CORBY\HARP2\CorbyBESSMEIWNCAcuteRisk.csv
- 74 HRA ran successfully

```
2
3
    GLCs loaded successfully
    Pollutants loaded successfully
4
5
    *********
    RISK SCENARIO SETTINGS
7
8
    Receptor Type: Worker
9
    Scenario: All
    Calculation Method: HighEnd
10
11
    *******
12
1.3
   EXPOSURE DURATION PARAMETERS FOR CANCER
14
15
    Start Age: 16
16
    Total Exposure Duration: 1
17
18
   Exposure Duration Bin Distribution
   3rd Trimester Bin: 0
19
20
   0<2 Years Bin: 0
   2<9 Years Bin: 0
21
22 2<16 Years Bin: 0
23 16<30 Years Bin: 1
24 16 to 70 Years Bin: 0
25
    ********
26
27
   PATHWAYS ENABLED
28
29
   NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways
    are only used for cancer and noncancer chronic assessments.
30
31
   Inhalation: True
32
   Soil: True
33 Dermal: True
34 Mother's milk: False
35 Water: False
36 Fish: False
37
   Homegrown crops: False
38 Beef: False
   Dairy: False
39
40
   Pig: False
    Chicken: False
41
42
    Egg: False
43
    ********
44
45
    INHALATION
46
47
    Daily breathing rate: Moderate8HR
48
49
    **Worker Adjustment Factors**
50
    Worker adjustment factors enabled: NO
51
52
    **Fraction at time at home**
53
    3rd Trimester to 16 years: OFF
54
    16 years to 70 years: OFF
55
    ********
56
57
    SOIL & DERMAL PATHWAY SETTINGS
58
59
    Deposition rate (m/s): 0.05
60
    Soil mixing depth (m): 0.01
61
    Dermal climate: Mixed
62
    ********
63
64
    TIER 2 SETTINGS
```

HARP2 - HRACalc (dated 22118) 4/16/2025 6:40:33 PM - Output Log

1

- Tier2 adjustments were used in this assessment. Please see the input file for details.
- Tier2 What was changed: ED or start age changed
- 68 Calculating cancer risk
- 69 Cancer risk saved to:
  - C:\Users\s.sridharan\Documents\CEQA\CORBY\HARP2\CorbyBESSSRCancerRisk.csv
- 70 Calculating chronic risk
- 71 Chronic risk saved to: C:\Users\s.sridharan\Documents\CEQA\CORBY\HARP2\CorbyBESSSRNCChronicRisk.csv
- 72 Calculating acute risk
- 73 Acute risk saved to:
  - C:\Users\s.sridharan\Documents\CEQA\CORBY\HARP2\CorbyBESSSRNCAcuteRisk.csv
- 74 HRA ran successfully

```
2
3
    GLCs loaded successfully
    Pollutants loaded successfully
4
5
    *********
    RISK SCENARIO SETTINGS
7
8
    Receptor Type: Worker
9
    Scenario: All
    Calculation Method: HighEnd
10
11
    *******
12
1.3
   EXPOSURE DURATION PARAMETERS FOR CANCER
14
15
    Start Age: 5
16
    Total Exposure Duration: 1
17
18
   Exposure Duration Bin Distribution
   3rd Trimester Bin: 0
19
20
   0<2 Years Bin: 0
   2<9 Years Bin: 1
21
22 2<16 Years Bin: 0
23 16<30 Years Bin: 0
24 16 to 70 Years Bin: 0
25
    *********
26
27
   PATHWAYS ENABLED
28
29
   NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways
    are only used for cancer and noncancer chronic assessments.
30
31
   Inhalation: True
32
   Soil: True
33 Dermal: True
34 Mother's milk: False
35 Water: False
36 Fish: False
37
   Homegrown crops: False
38 Beef: False
   Dairy: False
39
40
   Pig: False
    Chicken: False
41
42
    Egg: False
43
    ********
44
45
    INHALATION
46
47
    Daily breathing rate: Moderate8HR
48
49
    **Worker Adjustment Factors**
50
    Worker adjustment factors enabled: NO
51
52
    **Fraction at time at home**
53
    3rd Trimester to 16 years: OFF
54
    16 years to 70 years: OFF
55
    ********
56
57
    SOIL & DERMAL PATHWAY SETTINGS
58
59
    Deposition rate (m/s): 0.05
60
    Soil mixing depth (m): 0.01
61
    Dermal climate: Mixed
62
    ********
63
64
    TIER 2 SETTINGS
```

HARP2 - HRACalc (dated 22118) 4/16/2025 6:42:07 PM - Output Log

1

- 66 Tier2 adjustments were used in this assessment. Please see the input file for details.
- Tier2 What was changed: ED or start age changed
- 68 Calculating cancer risk
- 69 Cancer risk saved to:
  - C:\Users\s.sridharan\Documents\CEQA\CORBY\HARP2\CorbyBESSrSR5CancerRisk.csv
- 70 Calculating chronic risk
- 71 Chronic risk saved to:
  - C:\Users\s.sridharan\Documents\CEQA\CORBY\HARP2\CorbyBESSrSR5NCChronicRisk.csv
- 72 Calculating acute risk
- 73 Acute risk saved to:
- C:\Users\s.sridharan\Documents\CEQA\CORBY\HARP2\CorbyBESSrSR5NCAcuteRisk.csv
- 74 HRA ran successfully



Figure C-1: Maximally Exposed Individual Receptors