



## Cornucopia Hybrid Project

### Senate Bill (SB) 149 Infrastructure Project Application

*Applicant:*

**Cornucopia Hybrid, LLC**  
18575 Jamboree Road, Suite 850  
Irvine, California 92612

*Prepared for:*

**Governor's Office of Planning and Research**  
1400 Tenth Street  
Sacramento, California 95814

**September 2024**

# Table of Contents

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|       |   |   |
|-------|---|---|
| 1     | Project Description and Background .....                                    | 1 |
| 1.1   | Project Location .....  | 1 |
| 1.2   | Project Background and Objectives .....                                     | 1 |
| 1.3   | Project Description.....  | 5 |
| 1.3.1 | Construction .....  | 5 |
| 1.3.2 | Operation .....   | 7 |
| 1.4   | Project Status and Schedule .....   | 7 |
| 2     | Consistency with Statutory Requirements for Streamlining Under SB 149 ..... | 8 |

## Tables

|         |   |   |
|---------|---|---|
| Table 1 | Project Consistency with Eligibility Criteria ..... | 9 |
|---------|---|---|

## Figures

|          |                             |   |
|----------|-----------------------------|---|
| Figure 1 | Regional Location .....     | 3 |
| Figure 2 | Project Location .....      | 4 |
| Figure 3 | Preliminary Site Plan ..... | 6 |

## Attachments

- Attachment A Prevailing Wage and Labor Certification
- Attachment B Commitment Letter
- Attachment C Greenhouse Gas Analysis

# 1 Project Description and Background

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Cornucopia Hybrid, LLC<sup>1</sup> (the Applicant) submits this application in accordance with California Public Resources Code (PRC) Division 13, Chapter 7, commencing with Section 21189.80 in accordance with Senate Bill (SB) 149. This application is to support the Governor of California (Governor) in certifying the Cornucopia Hybrid Project (Project) as an Energy Infrastructure Project under PRC Section 21189.82.

This section describes the Project location and background and provides a description of Project characteristics.

## 1.1 Project Location

The Project site is located in an unincorporated portion of Fresno County, California, situated between the communities of Coalinga and Avenal. The Project includes approximately 2,446 acres of land leased by BayWa r.e. Solar Projects LLC at the base of the eastern slope of the Diablo Range. Interstate 5 (I-5) is located approximately four miles east of the Project site. The Project site is bifurcated north to south by Sutter Avenue and east to west by State Route (SR) 33 (South Lost Hills Road). The Project site includes fallow agricultural land and is mostly surrounded by vacant agricultural land to the north, west, and south with residential uses to the southeast. There is a small residential area which lies just north of the northernmost portion of the Project site along SR 33 and a commercial barn that borders the Project site to the east of SR 33 at the junction of SR 33 with Sutter Avenue.

Figure 1 shows the regional location and Figure 2 shows the Project site location and boundary.

## 1.2 Project Background and Objectives

Solar energy development is expanding on land and water throughout the state of California. The rate of development is expected to increase such that solar energy would be the dominant source of electricity. According to the California Air Resources Board (ARB) Scoping Plan, at least 72 gigawatts (GW) of photovoltaic (PV) solar energy capacity (with 37 GW of storage) is anticipated to be needed to fully decarbonize the state's energy system by 2045.

The objectives of the Project are to:

- Develop a renewable energy project including solar power generation and battery energy storage in Fresno County, which would support the economy by investing in the local community, creating local construction jobs, and increasing tax and fee revenue to the County.
- Increase electricity independence and resilience through the generation of renewable energy.
- Provide the County and the State of California with a renewable energy source that would assist the state in complying with the Renewables Portfolio Standard under Senate Bill (SB) 100, approved in 2018, which requires that 100 percent of all electricity sold in the state shall be generated from renewable energy sources by 2045.

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<sup>1</sup> Cornucopia Hybrid LLC is a subsidiary of BayWa r.e. U.S. Solar Projects

- Establish solar PV power-generation with battery energy storage facilities of sufficient size and configuration to produce reliable electricity in an economically feasible and commercially financeable manner.
- Expand the reach of renewable energy development through the development of battery energy storage systems, making solar more valuable by storing energy after sunset and placing it on the grid.
- Site and design the project in an environmentally responsible manner, which includes:
  - Locating generation facilities in an area which receive appropriate solar radiation;
  - Using existing electrical transmission facilities, rights-of-way, roads, and other existing infrastructure where practical;
  - Utilizing land that has been fallow due to lack of water;
  - Minimizing water use; and
  - Reducing greenhouse gas emissions.
- Support California's efforts to reduce greenhouse gas emissions consistent with California Assembly Bill 32, the Global Warming Solutions Act of 2006, and SB 32, to at least 40 percent below the statewide greenhouse gas emissions limit by 2030.

**Figure 1 Regional Location**



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23-15487 EPS  
Fig 1 Regional Location

★ Project Location

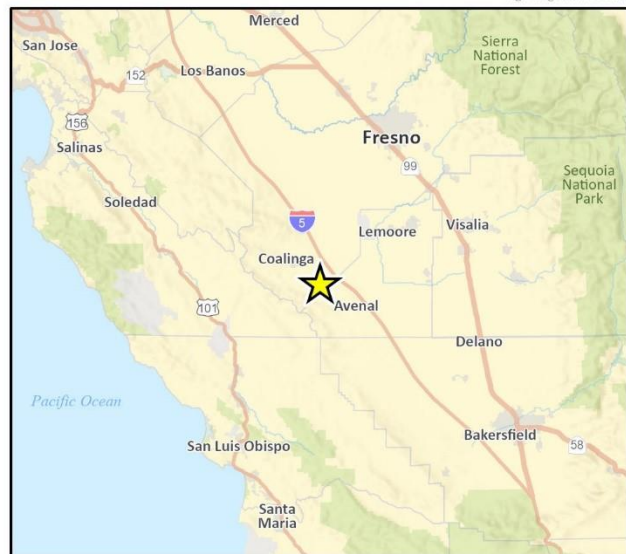
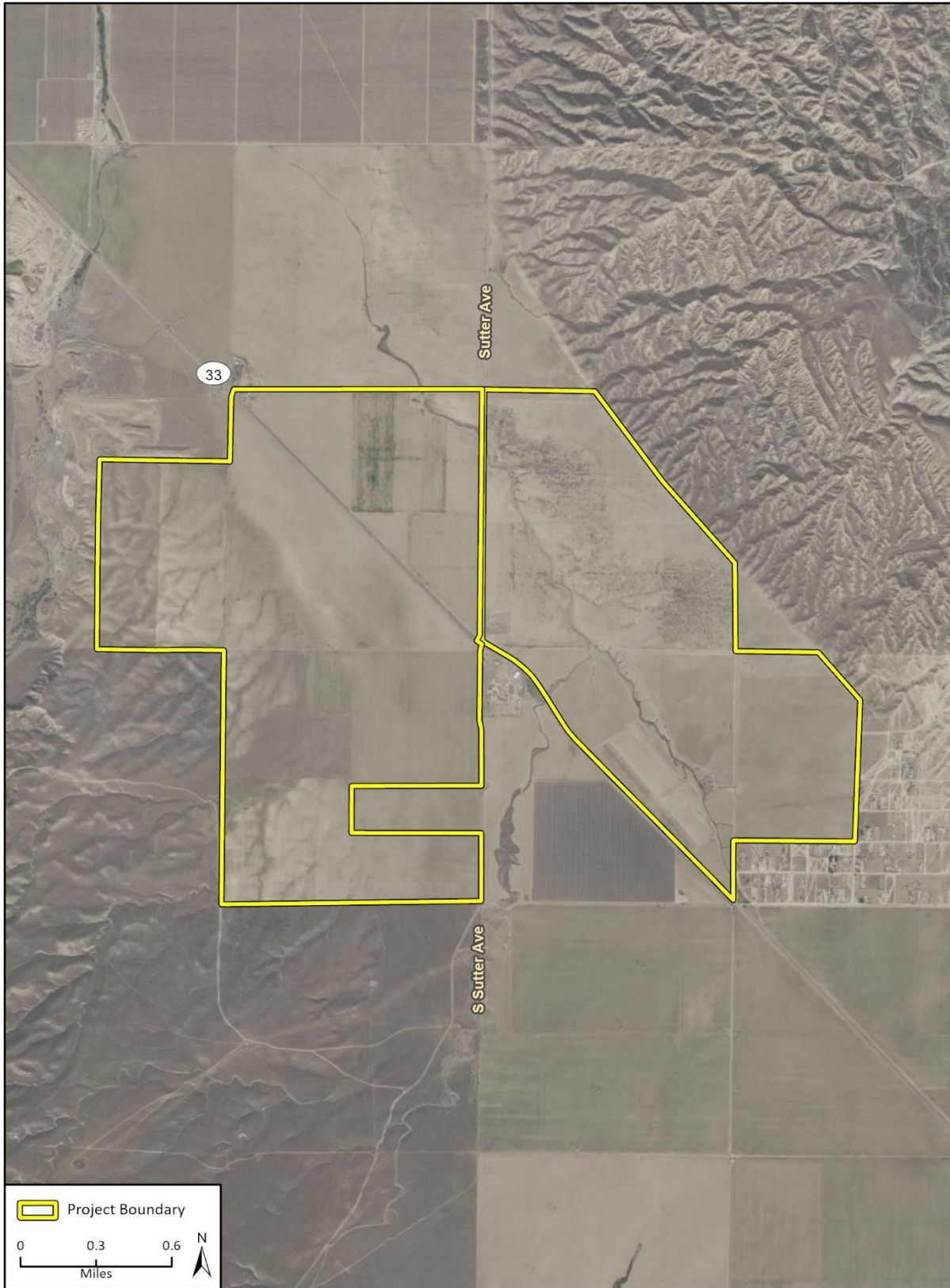


Figure 2 Project Location



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23-15487 EPS  
Fig 2 Project Location

## 1.3 Project Description

The proposed Cornucopia Hybrid Project (Project) would include the development of a new utility-scale, 300-megawatt (MW) solar facility consisting of approximately 686,880 solar modules, a 300-megawatt alternating current (MWac) battery energy storage system (ESS), and two prefabricated structures for maintenance, operation, and control services. Figure 3 shows a preliminary site plan for the project. Equipment quantities and specifications are subject to change based on technological improvement that may occur between Project approval and construction.

The key components of the proposed Project currently include:

- 686,880 photovoltaic (PV) solar modules rated at 585 watts (W), mounted on tracking devices and organized as rows in a uniform grid pattern (solar array). The PV modules would be connected to 74 power inverters.
- Substations to interconnect the Project to the grid, including equipment such as breakers, switches, relays, meters, lightning protection, transformers, grounding, and a control enclosure.
- An ESS capable of storing up to 300 MW of electricity and conducting energy to the regional electrical grid. The ESS would consist of battery banks housed in electrical enclosures and buried electrical conduit.
- Connection to Pacific Gas and Electric Company (PG&E) Switching Station's existing 230 kV transmission lines.
- Two prefabricated structures, of which one would be used for maintenance and operation service and one for control services.
- Access road network to be constructed throughout the Project site, with entrances proposed on SR 33 and Sutter Avenue.
- Revegetation of Project site with a blend of native grasses and pollinator species.
- Laydown area located at the southeast corner of the site to be used for material and equipment staging.
- Potential partnership with a local shepherd to utilize sheep grazing for vegetation management during Project operation.

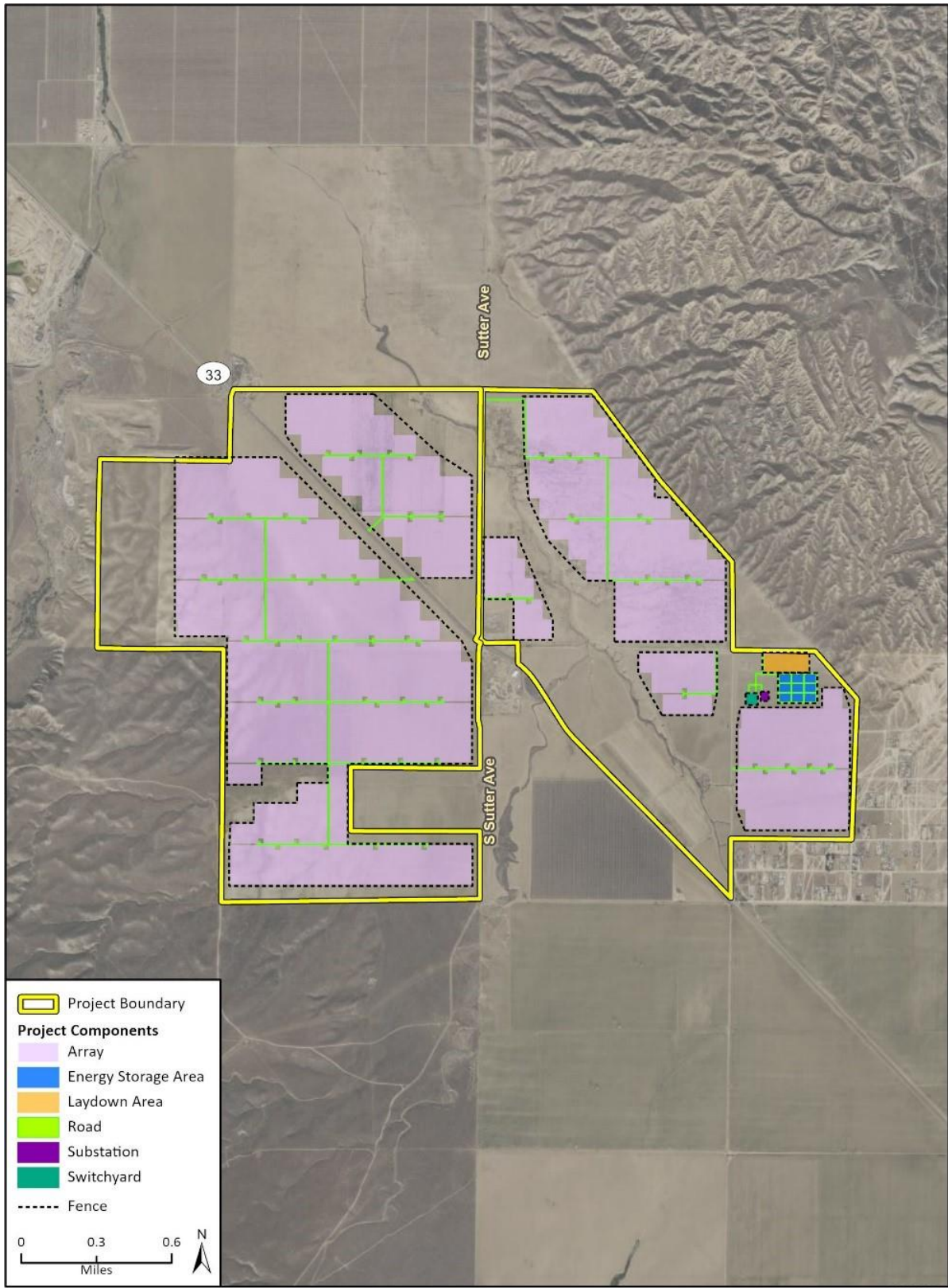
### 1.3.1 Construction

Construction of the Project is anticipated to involve the following three main project components:

- **Solar Facility** - Construction of the solar facility will be broken into three phases: site preparation, installation of the PV system, and installation of the inverters, transformers, substation, switching station, and the gen-tie line.
- **ESS** - Construction of the ESS will be broken into three phases: site preparation, installation of foundations, structures, and DC electrical system, and installation of inverters, substation, and AC electrical system.
- **PG&E Improvements** - Construction of PG&E improvements will be broken into two phases: site work and electrical work.

Construction of the project is anticipated to begin in the fourth quarter of 2026 and last approximately 39 months, with a commercial operation date of the fourth quarter of 2029.

Figure 3 Preliminary Site Plan





### 1.3.2 Operation

The Project is anticipated to be operational in the fourth quarter of 2029 and would operate 24 hours per day, seven days a week, and 365 days per year. Once completed, the Project would generate power from the solar facility during daylight hours and the energy storage system could distribute power to the grid, seven-days a week, year-round. The planned project life is 35 years.

Due to the remote nature of the Project site, operation and maintenance activities would be carried out by approximately six full-time employees and occur on a scheduled and as-needed basis; therefore, regular onsite staff would not be required. When technical support is needed, a small crew of technicians would enter the Project site during typical business hours and complete any required operation and maintenance activities.

## 1.4 Project Status and Schedule

Environmental planning efforts are underway. The Applicant is working closely with Fresno County as the California Environmental Quality Act (CEQA) lead agency. A Notice of Preparation of an Environmental Impact Report (EIR) was released on May 3, 2024, and the Draft EIR is anticipated to be released in August 2024. The Fresno County Board of Supervisors is expected to consider certification of the Final EIR whether to adopt the Project by May 2025.

## **2 Consistency with Statutory Requirements for Streamlining Under SB 149**

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This chapter summarizes each applicable section of the California Public Resources Code (PRC) (PRC §§21189.80 – 21189.91) as amended by Senate Bill (SB) 149 and describes how the Project complies with the requirements in the section. The table on the following page includes the text of SB 149 in full along with responses by the Applicant to each specific requirement, thereby providing evidence that the Cornucopia Hybrid Project would meet the criteria set forth in SB 149 to qualify as an Infrastructure Project.

Additional supporting information is provided in attachments, as warranted.

**Table 1 Project Consistency with Eligibility Criteria**

| PRC Section                               | Eligibility Criteria  | Meets Criteria?<br>(Yes/No)   | Applicant Response                  |
|---|---|---|-------------------------------------|
| <b>Chapter 7. Infrastructure Projects</b> |   |   |                                     |
| <p>PRC § 21189.80</p>                     | <p>The Legislature finds and declares all of the following:</p> <p>(a) This division requires that the environmental impacts of development projects be identified and mitigated.</p> <p>(b) This division also guarantees the public an opportunity to review and comment on the environmental impacts of a project and to participate meaningfully in the development of mitigation measures for potentially significant environmental impacts.</p> <p>(c) Historic federal and state investments in infrastructure will lead to the development of numerous transportation-related, water-related, technology, and energy facilities across the state that would further California's commitments to reducing emissions of greenhouse gases and protecting its people from the worst extremes of climate change while also leveraging federal resources to increase access to quality jobs in our communities.</p> <p>(d) These projects will further generate full-time jobs during construction and additional jobs once the projects are constructed and operating.</p> <p>(e) The transportation-related projects would help state, regional, and local agencies more quickly meet the goals of advancing safety, rehabilitating the aging transportation infrastructure, and addressing the impacts of climate change.</p> <p>(f) The transportation-related projects will accelerate critical state, regional, and local "fix it first" projects supported by a historic federal and state partnership through Chapter 5 of the Statutes of 2017, and the federal Infrastructure Investment and Jobs Act (Public Law 117-58 ).</p> <p>(g) The purpose of this chapter is to provide unique streamlining benefits under this division for critical state, regional, and local investments in climate resiliency, safety, and infrastructure maintenance while maintaining the environmental and public engagement benefits of this division for projects that provide the public benefits, including environmental and climate-related benefits, described above and to both achieve those benefits and put people to work as soon as possible.</p> | <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> n/a</p> | <p>Noted; no response required.</p> |

| PRC Section    | Eligibility Criteria  | Meets Criteria?<br>(Yes/No)  | Applicant Response  |
|----------------|---|--|---|
| PRC § 21189.81 | <p>For purposes of this chapter, the following definitions apply:</p> <p>(a) "Applicant" means a public or private entity or its affiliates, or a person or entity that undertakes a public works project, that proposes a project and its successors, heirs, and assignees.</p>  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> n/a | Noted; no response required.  |
|                | <p>(b) "Disadvantaged community" means an area identified by the California Environmental Protection Agency pursuant to Section 39711 of the Health and Safety Code or an area identified as a disadvantaged unincorporated community pursuant to Section 65302.10 of the Government Code.</p>  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> n/a | Noted; no response required.  |
|                | <p>(c) "Electrical transmission facility project" means a project for the construction and operation of an electrical transmission facility the meets either of the following:</p> <p>(1) An electrical transmission facility project identified by the Independent System Operator in its annual transmission planning process that meets either of the following criteria:</p> <p>(A) The project will facilitate delivery of electricity from renewable energy resources or zero-carbon resources.</p> <p>(B) The project will facilitate delivery of electricity from energy storage projects.</p> <p>(2) An electrical transmission facility project identified by a local publicly owned electric utility that would satisfy a transmission expansion need approved by the governing body of the local publicly owned electric utility and that meets either of the following criteria:</p> <p>(A) The project will facilitate delivery of electricity from renewable energy resources or zero-carbon resources.</p> <p>(B) The project will facilitate delivery of electricity from energy storage projects.</p> | <input type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> n/a | Noted; the Project is not an electrical transmission facility project.  |
|                | <p>(d) (1) "Energy infrastructure project" means any of the following:</p> <p>(A) An eligible renewable energy resource, as defined in Section 399.12 of the Public Utilities Code, excluding resources that utilize biomass fuels.</p> <p>(B) New energy storage systems of 20 megawatts or more, that are capable of discharging for at least two hours, provided that a pumped hydro facility may qualify</p>  | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | The Cornucopia Hybrid Project qualifies as an Infrastructure Project as an "energy infrastructure project" under Section 21189.91(d)(1). The Project is a proposed 300 MW solar photovoltaic facility with a 300- |

| PRC Section | Eligibility Criteria  | Meets Criteria?<br>(Yes/No)   | Applicant Response  |
|-------------|---|---|---|
|             | <p>only if it is less than or equal to 500 megawatts and has been directly appropriated funding by the state before January 1, 2023.</p> <p>(C) A project for which the applicant has certified that a capital investment of at least two hundred fifty million dollars (\$250,000,000) made over a period of five years and the project is for either of the following:</p> <ul style="list-style-type: none"> <li>(i) The manufacture, production, or assembly of an energy storage system or component manufacturing, wind system or component manufacturing, and solar photovoltaic energy system or component manufacturing.</li> <li>(ii) The manufacture, production, or assembly of specialized products, components, or systems that are integral to renewable energy or energy storage technologies.</li> </ul> <p>(D) An electric transmission facility project, provided that nothing in this chapter affects the jurisdiction of the California Coastal Commission pursuant to Division 20 (commencing with Section 30000) to regulate such projects if located in the coastal zone.</p> <p>(E) An energy infrastructure project does not include projects utilizing hydrogen as a fuel.</p> <p>(2) Any project to develop a facility within the meaning of subdivision (b) of Section 25545 shall meet the requirements of Sections 25545.3.3 and 25545.3.5, except that those requirements shall also apply to solar photovoltaic and terrestrial wind electrical generating power plants with a generating capacity of between 20 and 50 megawatts and energy storage projects capable of storing between 80 and 200 megawatt hours of electrical energy.</p> |   | <p>megawatt alternating current (MWac) energy storage system (ESS).</p> <p>The project does not involve utilizing hydrogen as a fuel.</p> <p>As discussed on Attachment A, pursuant to PRC section 21189.81(d)(2)); the project would meet the prevailing wage and skilled workforce requirements set forth in PRC Sections 25545.3.3 and 25545.3.5.</p> <p>Please see Attachment A for additional information.</p> |
|             | <p>(e) "Infrastructure project" means a project that is certified pursuant to Sections 21189.82 and 21189.83 as any of the following:</p> <ul style="list-style-type: none"> <li>(1) An energy infrastructure project.</li> <li>(2) A semiconductor or microelectronic project.</li> <li>(3) A transportation-related project.</li> </ul>   | <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p><input type="checkbox"/> n/a</p> | <p>Noted; the project is an energy infrastructure project. See above discussion under Section 21189.91(d).</p>  |

| PRC Section | Eligibility Criteria   | Meets Criteria?<br>(Yes/No)  | Applicant Response  |
|-------------|--|--|---|
|             | (4) A water-related project.   |  |   |
|             | (f) "Semiconductor or microelectronic project" means a project that meets the requirements related to investment in new or expanded facilities and is awarded funds under the federal Creating Helpful Incentives to Produce Semiconductors Act of 2022 (Public Law 117-167), commonly known as the CHIPS Act of 2022, and the requirements of Section 21183.5.  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> n/a | Noted; the project is not a semiconductor or microelectronic project. |
|             | (g) (1) "Transportation-related project" means a transportation infrastructure project that advances one or more of, and does not conflict with, the following goals related to the Climate Action Plan for Transportation Infrastructure adopted by the Transportation Agency:<br>(A) Build toward an integrated, statewide rail and transit network.<br>(B) Invest in networks of safe and accessible bicycle and pedestrian infrastructure.<br>(C) Include investments in light-, medium-, and heavy-duty zero-emission vehicle infrastructure.<br>(D) Develop a zero-emission freight transportation system.<br>(E) Reduce public health and economic harms and maximize community benefits.<br>(F) Make safety improvements to reduce fatalities and severe injuries of all users towards zero.<br>(G) Assess and integrate assessments of physical climate risk.<br>(H) Promote projects that do not significantly increase passenger vehicle travel.<br>(I) Promote compact infill development while protecting residents and businesses from displacement.<br>(J) Protect natural and working lands.<br>(2) Transportation-related projects are public works for the purposes of Section 1720 of the Labor Code and shall comply with the applicable provisions of Chapter 1 (commencing with Section 1720) of Part 7 of Division 2 of the Labor Code. | <input type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> n/a | Noted; the project is not a transportation-related project.           |

| PRC Section | Eligibility Criteria   | Meets Criteria?<br>(Yes/No)   | Applicant Response  |
|-------------|--|---|---|
|             | <p>(h) (1) "Water-related project" means any of the following:</p> <p>(A) A project that is approved to implement a groundwater sustainability plan that the Department of Water Resources has determined is in compliance with Sections 10727.2 and 10727.4 of the Water Code or to implement an interim groundwater sustainability plan adopted pursuant to Section 10735.6 of the Water Code.</p> <p>(B)</p> <p>(i) A water storage project funded by the California Water Commission pursuant to Chapter 8 (commencing with Section 79750) of Division 26.7 of the Water Code.</p> <p>(ii) In addition to clause (i), the applicant shall demonstrate that the project will minimize the intake or diversion of water except during times of surplus water and prioritizes the discharge of water for ecological benefits or to mitigate an emergency, including, but not limited to, dam repair, levee repair, wetland restoration, marshland restoration, or habitat preservation, or other public benefits described in Section 79753 of the Water Code.</p> <p>(C) Projects for the development of recycled water, as defined in Section 13050 of the Water Code.</p> <p>(D) Contaminant and salt removal projects, including groundwater desalination and associated treatment, storage, conveyance, and distribution facilities. This shall not include seawater desalination.</p> <p>(E) Projects exclusively for canal or other conveyance maintenance and repair.</p> <p>(2) Water-related projects are public works for the purposes of Section 1720 of the Labor Code and shall comply with the applicable provisions of Chapter 1 (commencing with Section 1720) of Part 7 of Division 2 of the Labor Code.</p> <p>(3) "Water-related project" does not include the design or construction of through-Delta conveyance facilities of the Sacramento-San Joaquin Delta.</p> | <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> n/a</p> | <p>Noted; the project is not a water-related project.</p> |

| PRC Section    | Eligibility Criteria  | Meets Criteria?<br>(Yes/No)  | Applicant Response  |
|----------------|---|--|---|
| PRC § 21189.82 | <p>(a) (1) (A) The Governor may certify a project as an energy infrastructure project for purposes of this chapter if the project meets the requirements of subdivision (d) of Section 21189.81.</p> <p>(B) In addition to subparagraph (A), if the applicant is not the lead agency, the Governor shall ensure all of the following:</p> <p>(i) The applicant agrees to pay the costs of the trial court and the court of appeal in hearing and deciding any case challenging a lead agency's action on a certified project under this division, including payment of the costs for the appointment of a special master if deemed appropriate by the court, in a form and manner as provided in the rule of court adopted by the Judicial Council under Section 21189.85.</p> <p>(ii) The applicant agrees to pay the costs of preparing the record of proceedings for the project concurrent with the review and consideration of the project under this division, in a form and manner specified by the lead agency for the project.</p> <p>(iii) For a project for which environmental review has commenced, the applicant demonstrates that the record of proceedings is being prepared in accordance with Section 21189.86.</p> <p>(2) (A) The Governor may certify a project as a semiconductor or microelectronic project for purposes of this chapter if the project meets the requirements of subdivision (f) of Section 21189.81.</p> <p>(B) In addition to subparagraph (A), if the applicant is not the lead agency, the Governor shall ensure all of the following:</p> <p>(i) The applicant agrees to pay the costs of the trial court and the court of appeal in hearing and deciding any case challenging a lead agency's action on a certified project under this division, including payment of the costs for the appointment of a special master if deemed appropriate by the court, in a form and manner as provided in the rule of court adopted by the Judicial Council under Section 21189.85.</p> <p>(ii) The applicant agrees to pay the costs of preparing the record of proceedings for the project concurrent with the review and consideration of the project</p> | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | <p>Pursuant to Section 21189.82(a)(1)(B), the Applicant is not the lead agency.</p> <p>As discussed in Attachment B:</p> <ul style="list-style-type: none"> <li>▪ Pursuant to Section 21189.82(a)(1)(B)(i), the Applicant commits to pay these costs, should they occur.</li> <li>▪ Pursuant to Section 21189.82(a)(1)(B)(ii), the Applicant commits to pay these costs.</li> </ul> <p>Pursuant to Section 21189.82(a)(1)(B)(iii), the record of proceedings is being prepared in accordance with Section 21189.86. See additional information under Section 21189.86 criteria.</p> <p>Sections 21189.82(a)(2) through 21189.82(a)(4) are not applicable to the Project.</p> <p>Please see Attachment B for additional information.</p> |



| PRC Section | Eligibility Criteria   | Meets Criteria?<br>(Yes/No) | Applicant Response |
|-------------|--|-----------------------------|--------------------|
|             | <p>under this division, in a form and manner specified by the lead agency for the project.</p> <p>(iii) For a project for which environmental review has commenced, the applicant demonstrates that the record of proceedings is being prepared in accordance with Section 21189.86.</p> <p>(3) The Governor may certify up to 20 transportation-related projects for purposes of this chapter, including up to 10 state projects proposed by the Department of Transportation and up to 10 local or regional projects, that meet the requirements of subdivision (g) of Section 21189.81.</p> <p>(4) (A) The Governor may certify a project as a water-related project for purposes of this chapter if the project meets the requirements of subdivision (h) of Section 21189.81.</p> <p>(B) In addition to subparagraph (A), the Governor shall ensure all of the following:</p> <p>(i) The applicant agrees to pay the costs of the trial court and the court of appeal in hearing and deciding any case challenging a lead agency's action on a certified project under this division, including payment of the costs for the appointment of a special master if deemed appropriate by the court, in a form and manner as provided in the rule of court adopted by the Judicial Council under Section 21189.85.</p> <p>(ii) The applicant agrees to pay the costs of preparing the record of proceedings for the project concurrent with the review and consideration of the project under this division, in a form and manner specified by the lead agency for the project.</p> <p>(iii) For a project for which environmental review has commenced, the applicant demonstrates that the record of proceedings is being prepared in accordance with Section 21189.86.</p> <p>(C) In addition to subparagraphs (A) and (B), the Governor may certify a project as a water-related project for purposes of this chapter only if the Governor finds that greenhouse gas emissions resulting from the project will be mitigated to the extent feasible.</p> |                             |                    |

| PRC Section           | Eligibility Criteria   | Meets Criteria?<br>(Yes/No)  | Applicant Response   |
|-----------------------|--|--|--|
|                       | <p>(b) The Office of Planning and Research may consult with other state agencies on and may issue guidelines regarding applications for and the certification of projects under this chapter. Any guidelines issued under this subdivision are not subject to the rulemaking provisions of the Administrative Procedure Act (Chapter 3.5 (commencing with Section 11340) of Part 1 of Division 3 of Title 2 of the Government Code).</p>   | <input type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> n/a | <p>Noted; no response required.</p>  |
|                       | <p>(c) An applicant for certification of an infrastructure project under this chapter shall do all of the following:</p> <p>(1) Avoid or minimize significant environmental impacts in any disadvantaged community.</p> <p>(2) If measures are required pursuant to this division to mitigate significant environmental impacts in a disadvantaged community, mitigate those impacts consistent with this division, including Section 21002. Mitigation measures required under this subdivision shall be undertaken in, and directly benefit, the affected community.</p> <p>(3) Enter into a binding and enforceable agreement to comply with this subdivision in its application to the Governor and to the lead agency prior to the agency's certification of the environmental impact report for the project.</p> | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | <p>Please see Attachment B stating Applicant's commitment to comply with these requirements.</p>   |
|                       | <p>(d) The Office of Planning and Research shall make evidence and materials submitted for the certification of a project available to the public on its internet website at least 15 days before the certification of the project.</p>  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> n/a | <p>Noted; no response required.</p>  |
|                       | <p>(e) The Governor's decision to certify a project shall not be subject to judicial review.</p>   | <input type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> n/a | <p>Noted; no response required.</p>  |
| <p>PRC § 21189.83</p> | <p>(a) In addition to the requirements of Section 21189.82, with respect to any energy infrastructure project or semiconductor or microelectronic project proposed by a private entity, the Governor may certify the project pursuant to this chapter only if the project does not result in any net additional emission of greenhouse gases, including greenhouse gas</p>   | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | <p>The Project is an energy infrastructure project as defined in Section 21189.91(d)(1). As quantified in the Greenhouse Gas Analysis (see Attachment C), the Project would not result in any net additional emission of</p> |

| PRC Section           | Eligibility Criteria  | Meets Criteria?<br>(Yes/No)   | Applicant Response   |
|-----------------------|---|---|--|
|                       | <p>emissions from employee transportation. For purposes of this section, a project is deemed to meet the requirements of this section if the applicant demonstrates to the satisfaction of the Governor that the applicant has a binding commitment that it will mitigate impacts resulting from the emission of greenhouse gases, if any, in accordance with Section 21183.6.</p>  |   | <p>greenhouse gases. The Project would result in a net reduction of an estimated 3,166,366 metric tons of CO<sub>2</sub>e emissions over the project’s lifespan. Please see Attachment C for additional information.<br/>The Project will comply with the greenhouse gas emissions quantification and mitigation in Section 21183.6.</p> |
|                       | <p>(b) In addition to the requirements of Section 21189.82, with respect to any transportation-related project, the Governor may certify the project pursuant to this chapter only if the project does not result in any net additional emission of greenhouse gases, excluding greenhouse gas emissions from employee transportation. For purposes of this section, a project is deemed to meet the requirements of this section if the applicant demonstrates to the satisfaction of the Governor that the applicant has a binding commitment that it will mitigate impacts resulting from the emission of greenhouse gases, if any, preferably through direct emissions reductions where feasible, but where not feasible, then through the use of offsets that are real, permanent, verifiable, and enforceable, and that provide a specific, quantifiable, and direct environmental and public health benefit to the same air pollution control district or air quality management district in which the project is located, but if all of the project impacts cannot be feasibly and fully mitigated in the same air pollution control district or air quality management district, then remaining unmitigated impacts shall be mitigated through the use of offsets that provide a specific, quantifiable, and direct environmental and public health benefit to the region in which the project is located.</p> | <p><input type="checkbox"/> Yes<br/><input type="checkbox"/> No<br/><input checked="" type="checkbox"/> n/a</p> | <p>The project is not a transportation-related project.</p>  |
|                       | <p>(c) The applicant shall be responsible for the costs of preparing an analysis of the emission of greenhouse gases resulting from the project.</p>  | <p><input checked="" type="checkbox"/> Yes<br/><input type="checkbox"/> No<br/><input type="checkbox"/> n/a</p> | <p>The applicant has committed to pay the costs for preparing an analysis of GHG emissions resulting from the project. The GHG Analysis is provided in Attachment C.</p>   |
| <p>PRC § 21189.84</p> | <p>(a) This chapter applies to a project that is certified by the Governor as an infrastructure project.</p>  | <p><input checked="" type="checkbox"/> Yes<br/><input type="checkbox"/> No<br/><input type="checkbox"/> n/a</p> | <p>Noted and accepted.</p>   |

| PRC Section    | Eligibility Criteria  | Meets Criteria?<br>(Yes/No)  | Applicant Response  |
|----------------|---|--|---|
|                | (b) An applicant may apply to the Governor for certification and shall provide evidence and materials deemed necessary by the Governor in making a decision on the application for certification.   | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | Noted and accepted.   |
|                | (c) The Governor shall submit the Governor's proposed certification, and any supporting information, to the Joint Legislative Budget Committee for review and concurrence or nonconcurrence. Within 30 days of receiving the determination, the Joint Legislative Budget Committee shall concur or nonconcur in writing on the certification. If the Joint Legislative Budget Committee fails to concur or nonconcur on a certification within 30 days of the submittal, the project is deemed to be certified. | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | Noted and accepted.   |
|                | (d) The Office of Planning and Research may charge a fee to an applicant seeking certification under this chapter for the costs incurred by the Governor's office in implementing this chapter.   | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | Noted and accepted.   |
| PRC § 21189.85 | (a) An action or proceeding brought to attack, review, set aside, void, or annul the certification of an environmental impact report for an infrastructure project subject to this chapter or the granting of any project approvals, including any potential appeals to the court of appeal or the Supreme Court, shall be resolved, to the extent feasible, within 270 days of the filing of the certified record of proceedings with the court.   | <input type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> n/a | Noted; no response required.  |
|                | (b) On or before December 31, 2023, the Judicial Council shall adopt a rule of court to implement this section.   | <input type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> n/a | Noted; no response required.  |
| PRC § 21189.86 | Notwithstanding any other law, the preparation and certification of the record of proceedings for an infrastructure project shall be performed in the following manner:<br><br>(a) The lead agency for the project shall prepare the record of proceedings under this division concurrently with the administrative process.  | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | Fresno County, as CEQA Lead Agency, will maintain a record of proceedings. Applicant is coordinating with Fresno County to ensure compliance with these requirements. |

| PRC Section | Eligibility Criteria  | Meets Criteria?<br>(Yes/No)  | Applicant Response  |
|-------------|---|--|---|
|             | (b) All documents and other materials placed in the record of proceedings shall be posted on, and be downloadable from, an internet website maintained by the lead agency commencing with the date of the release of the draft environmental impact report.   | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | Fresno County, as CEQA Lead Agency, will maintain a record of proceedings, and will post all documents and other materials in the record of proceedings in downloadable form on the County Project website. Applicant is coordinating with Fresno County to ensure compliance with these requirements.  |
|             | (c) The lead agency shall make available to the public in a readily accessible electronic format the draft environmental impact report and all other documents submitted to, or relied on by, the lead agency in preparing the draft environmental impact report.   | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | Fresno County, as CEQA Lead Agency, will maintain a record of proceedings, and will post the Draft EIR and all other documents relied on in preparing the Draft EIR on the County Project website. Applicant is coordinating with Fresno County to ensure compliance with these requirements.   |
|             | (d) Any document prepared by the lead agency or submitted by the applicant after the date of the release of the draft environmental impact report that is a part of the record of proceedings shall be made available to the public in a readily accessible electronic format within five days after the document is released or received by the lead agency. | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | Fresno County, as CEQA Lead Agency, will maintain a record of proceedings, and will post the any document prepared by the lead agency or submitted by the Applicant after release of the Draft EIR in electronic format within 5 days of receipt on the County Project website at [insert link]. Applicant is coordinating with Fresno County to ensure compliance with these requirements. |
|             | (e) The lead agency shall encourage written comments on the project to be submitted in a readily accessible electronic format, and shall make any comment available to the public in a readily accessible electronic format within five days of its receipt.  | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | Fresno County, as CEQA Lead Agency, will make public comments available to the public in an accessible format within 5 days of receipt on the County Project website at [insert link]. Applicant is coordinating with Fresno County to ensure compliance with these requirements.   |

| PRC Section | Eligibility Criteria  | Meets Criteria?<br>(Yes/No)  | Applicant Response   |
|-------------|---|--|--|
|             | (f) Within seven days after the receipt of any comment that is not in an electronic format, the lead agency shall convert that comment into a readily accessible electronic format and make it available to the public in that format.  | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | Fresno County, as CEQA Lead Agency, will convert any comment received that is not electronic into an electronic format and post on the County Project website at [insert link] within 7 days of receipt. Applicant is coordinating with Fresno County to ensure compliance with these requirements.    |
|             | (g) Notwithstanding subdivisions (b) to (f), inclusive, documents submitted to or relied on by the lead agency that were not prepared specifically for the project and are copyright protected are not required to be made readily accessible in an electronic format. For those copyright-protected documents, the lead agency shall make an index of these documents available in an electronic format no later than the date of the release of the draft environmental impact report, or within five days if the document is received or relied on by the lead agency after the release of the draft environmental impact report. The index shall specify the libraries or lead agency offices in which hardcopies of the copyrighted materials are available for public review. | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | Fresno County, as CEQA Lead Agency, will maintain an electronic index of copyright-protected documents and where materials are available and post the index on the County Project website at [insert link]. Applicant is coordinating with Fresno County to ensure compliance with these requirements. |
|             | (h) The lead agency shall certify the final record of proceedings within five days of its approval of the project.  | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | Fresno County, as CEQA Lead Agency, will maintain a record of proceedings defined and will certify the record of proceedings within 5 days of approval of the project.   |
|             | (i) Any dispute arising from the record of proceedings shall be resolved by the superior court. Unless the superior court directs otherwise, a party disputing the content of the record of proceedings shall file a motion to augment the record of proceedings at the time it files its initial brief.  | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | Noted and accepted.  |
|             | (j) The contents of the record of proceedings shall be as set forth in subdivision (e) of Section 21167.6.  | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | Fresno County, as CEQA Lead Agency, will maintain a record of proceedings defined in section 21167.6(e), and will post all   |

| PRC Section    | Eligibility Criteria  | Meets Criteria?<br>(Yes/No)  | Applicant Response   |
|----------------|---|--|--|
|                |   |  | documents and other materials in the record of proceedings on the County Project website.  |
|                | (k) The applicant shall pay the costs of preparing the record of proceedings for the project concurrent with review and consideration of the project under this division, in a form and manner specified by the lead agency for the project. The cost of preparing the record of proceedings for the project shall not be recoverable from the plaintiff or petitioner before, during, or after any litigation.   | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | Pursuant to Section 21189.86(k), the applicant commits to pay these costs.   |
| PRC § 21189.87 | (a) Within 10 days of the certification of a project pursuant to Section 21189.82, the lead agency shall, at the applicant's expense, if applicable, issue a public notice in no less than 12-point type stating the following:<br><br>"THE APPLICANT HAS ELECTED TO PROCEED UNDER CHAPTER 7 (COMMENCING WITH SECTION 21189.80) OF DIVISION 13 OF THE PUBLIC RESOURCES CODE, WHICH PROVIDES, AMONG OTHER THINGS, THAT ANY JUDICIAL ACTION CHALLENGING THE CERTIFICATION OF THE ENVIRONMENTAL IMPACT REPORT (EIR) OR THE APPROVAL OF THE PROJECT DESCRIBED IN THE EIR IS SUBJECT TO THE PROCEDURES SET FORTH IN SECTIONS 21189.85 AND 21189.86 OF THE PUBLIC RESOURCES CODE. A COPY OF CHAPTER 7 (COMMENCING WITH SECTION 21189.80) OF DIVISION 13 OF THE PUBLIC RESOURCES CODE IS INCLUDED BELOW."<br><br>b) The public notice shall be distributed by the lead agency as required for public notices issued under paragraph (3) of subdivision (b) of Section 21092. | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> n/a | Upon certification of the Project, Fresno County will issue the required public notice to: <ul style="list-style-type: none"> <li>▪ All organizations and individuals who have previously requested notice,</li> <li>▪ Internet website of the lead agency,</li> <li>▪ At least one of the following procedures:                             <ul style="list-style-type: none"> <li>– Newspaper of general circulation in Project area</li> <li>– On- and off-site at Project</li> <li>– Direct mailing to owners and occupants of contiguous properties on latest equalized assessment roll.</li> </ul> </li> </ul> |
| PRC § 21189.88 | Except as otherwise provided expressly in this chapter, this chapter does not affect the duty of any party to comply with this division.  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> n/a | Noted; no response required.   |
| PRC § 21189.89 | The provisions of this chapter are severable. If any provision of this chapter or its application is held invalid, that invalidity shall not affect other provisions or applications that can be given effect without the invalid provision or application.   | <input type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> n/a | Noted; no response required.   |

| PRC Section    | Eligibility Criteria  | Meets Criteria?<br>(Yes/No)  | Applicant Response                             |
|----------------|---|--|--|
| PRC § 21189.90 | If before January 1, 2033, a lead agency fails to approve an infrastructure project, then the certification is no longer valid. | <input type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> n/a | Approval deadline noted; no response required. |
| PRC § 21189.91 | This chapter shall remain in effect only until January 1, 2034, and as of that date is repealed.                                | <input type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input checked="" type="checkbox"/> n/a | Schedule noted; no response required.          |



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# Attachment A

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Prevailing Wage and Labor Certification

August 16, 2024

Ms. Natalie Kuffel  
Judicial Streamlining Program Manager  
Governor's Office of Planning and Research  
1400 10th St # 100  
Sacramento, CA 95814

Dear Ms. Kuffel,

In connection with its application for certification of the Cornucopia Hybrid Project in Fresno County, California as an Energy Infrastructure Project under SB 149, Cornucopia Hybrid LLC certifies that it will comply with the prevailing wage and workforce requirements referenced in Public Resources Code section 21189.81(d)(2), including that (1) all construction workers employed on the project will be paid at least the general prevailing rate of per diem wages or apprenticeship wages, as applicable, in accordance with Public Resources code section 25545.3.3, and (2) a skilled and trained workforce will be used to perform all construction work on the project, in accordance with Public Resources code section 25545.3.5.

Specifically, Cornucopia Hybrid LLC certifies as follows:

1. Prevailing Wages:

- a. The prevailing wage requirement of Public Resources code section 25545.3.3 will be included in all contracts for the performance of all construction work.
- b. All contractors and subcontractors will be required to pay to all construction workers employed in the construction of the project at least the general prevailing rate of per diem wages or the applicable apprentice prevailing rate, as applicable.
- c. All contractors and subcontractors performing construction work on the project will be required to employ apprentices at no less than the ratio required in Section 1777.5 of the Labor Code.
- d. All contractors and subcontractors performing construction work will maintain and verify payroll records pursuant to Section 1776 of the Labor Code, make those records available for inspection and copying as provided therein, and furnish those payroll records to the Labor Commissioner pursuant to Section 1771.4 of the Labor Code.
- e. The obligation of the contractors and subcontractors to pay prevailing wages and employ apprentices may be enforced by the Labor Commissioner through the issuance of a civil wage and penalty assessment pursuant to Section 1741 of the Labor Code, which may be reviewed pursuant to Section 1742 of the Labor Code, within 18 months after the completion of the project, or by an underpaid worker through an administrative complaint or civil action, or by a joint labor-management committee through a civil action under

Section 1771.2 of the Labor Code. If a civil wage and penalty assessment is issued, the contractor, subcontractor, and surety on a bond or bonds issued to secure the payment of wages covered by the assessment will be liable for liquidated damages pursuant to Section 1742.1 of the Labor Code.

- f. Alternatively, all contractors and subcontractors performing construction work on the project may be subject to a project labor agreement, which would include the following. If the project is subject to such a project labor agreement, then sections 1.d and 1.e, above, do not apply:
  - i. Provisions requiring payment of prevailing wages to all construction workers employed in the construction of the project and for enforcement of that obligation through an arbitration procedure.
  - ii. Targeted hiring provisions, including a targeted hiring plan, on a craft-by-craft basis to address job access for local, disadvantaged, or underrepresented workers, as defined by a relevant local agency.
  - iii. Apprenticeship utilization provisions that commit all parties to increasing the share of work performed by state-registered apprentices above the state-mandated minimum ratio required in Section 1777.5 of the Labor Code.
  - iv. Apprenticeship utilization provisions that commit all parties to hiring and retaining a certain percentage of state-registered apprentices that have completed the Multi-Craft Core pre-apprenticeship training curriculum referenced in subdivision (t) of Section 14005 of the Unemployment Insurance Code.

2. Skilled and Trained Workforce:

- a. All contracts for the performance of work will require that every contractor and subcontractor at every tier will individually use a skilled and trained workforce to construct the project.
- b. Every contractor and subcontractor will be required to use a skilled and trained workforce to construct the project.
- c. Contractors and subcontractors that fail to use a skilled and trained workforce will be subject to the penalties provided in Section 2603 of the Public Contract Code. Penalties for a contractor's or subcontractor's failure to comply with the requirement to use a skilled and trained workforce may be assessed by the Labor Commissioner within 18 months of completion of the project using the same procedures for issuance of civil wage and penalty assessments pursuant to Section 2603 of the Public Contract Code. Penalties shall be paid to the State Public Works Enforcement Fund.
- d. Cornucopia Hybrid LLC will retain records, including copies of monthly reports, that demonstrate compliance with Chapter 2.9 (commencing with Section 2600) of Part 1 of Division 2 of the Public Contract Code while the project or contract is being performed and for three years after completion of the project or contract. Cornucopia Hybrid LLC will submit these records immediately upon request of the commission. When submitted to the commission, these records shall be a public record under the California Public Records Act

(Chapter 3.5 (commencing with Section 6250) of Division 7 of Title 1 of the Government Code) and shall be open to public inspection.

- e. Alternatively, all contractors and subcontractors performing work on the project may be subject to a project labor agreement, which would include the following. If the project is subject to such a project labor agreement, then sections 2.c and 2.d, above, do not apply:
  - i. Provisions requiring compliance with the skilled and trained workforce requirement and for enforcement of that obligation through an arbitration procedure.
  - ii. Targeted hiring provisions, including a targeted hiring plan, on a craft-by-craft basis to address job access for local, disadvantaged, or underrepresented workers, as defined by a local agency.
  - iii. Apprenticeship utilization provisions that commit all parties to increasing the share of work performed by state-registered apprentices above the state-mandated minimum ratio required in Section 1777.5 of the Labor Code.
  - iv. Apprenticeship utilization provisions that commit all parties to hiring and retaining a certain percentage of state-registered apprentices that have completed the Multi-Craft Core pre-apprenticeship training curriculum referenced in subdivision (t) of Section 14005 of the Unemployment Insurance Code.

Cornucopia Hybrid LLC looks forward to working with you regarding its application for certification of the Cornucopia Hybrid Project as an Energy Infrastructure Project under SB 149.

Sincerely,

*Mike Stanton*

Mike Stanton  
Authorized Signatory  
Cornucopia Hybrid LLC

# Cornucopia Hybrid prevailing wage and labor cert 08-16-24

Final Audit Report

2024-08-19

|                 |   |
|-----------------|---|
| Created:        | 2024-08-16                                      |
| By:             | William Geoghegan (Will.Geoghegan@baywa-re.com) |
| Status:         | Signed  |
| Transaction ID: | CBJCHBCAABAACgBYeaxPg9pPuxd7X8BoveQtmYgb6tG0    |

## "Cornucopia Hybrid prevailing wage and labor cert 08-16-24" History

-  Document created by William Geoghegan (Will.Geoghegan@baywa-re.com)  
2024-08-16 - 4:20:07 PM GMT- IP address: 35.149.17.45
-  Document emailed to Michael Stanton (mike.stanton@baywa-re.com) for signature  
2024-08-16 - 4:20:46 PM GMT
-  Email viewed by Michael Stanton (mike.stanton@baywa-re.com)  
2024-08-16 - 4:29:26 PM GMT- IP address: 216.126.34.22
-  Document e-signed by Michael Stanton (mike.stanton@baywa-re.com)  
Signature Date: 2024-08-19 - 1:34:00 PM GMT - Time Source: server- IP address: 216.126.34.22
-  Agreement completed.  
2024-08-19 - 1:34:00 PM GMT

# Attachment B

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Commitment Letter

October 25, 2024

Mr. Chris Motta, Mr. William Kettler and Mr. Steven E. White, PE, PLS  
Fresno County Department of Public Works and Planning  
2220 Tulare Street  
Fresno, California 93721

Re: Cornucopia Hybrid Project: Energy Infrastructure Project Mitigation, Administrative Record,  
and Court Cost Obligations under SB 149

Dear Mr. Motta, Mr. Kettler and Mr. White:

Cornucopia Hybrid, LLC (“Cornucopia”) applied to the Governor of California for certification of the Cornucopia Hybrid Project (the “Project”) as an Energy Infrastructure Project under Public Resources Code section 21189.80 et. seq (“SB 149”). If so certified, the Project would be subject to streamlining benefits under the California Environmental Quality Act (“CEQA”), and as the lead agency for the Project, Fresno County (“County”) would be subject to certain administrative record and other requirements set forth in SB 149. By this letter, Cornucopia acknowledges and agrees to meet its obligations under Public Resources Code Section 21189.82, subdivisions (a)(1)(B) and (c) and Public Resources Code Section 21189.83, subdivision (a).

Cornucopia hereby agrees to the following:

1. Cornucopia acknowledges that the Project has not yet been approved by the County, and this letter does not, and will not, obligate the County to recommend or approve any discretionary permits that are necessary for the Project to move forward, including Variances, Conditional Use Permits, Director’s Review and Approvals, Amendment Applications, or the certification of an Environmental Impact Report.
2. As required by Public Resources Code Section 21189.82(c), should the Project ultimately be approved, Cornucopia agrees to avoid or minimize significant environmental impacts in any disadvantaged community. If measures are required under CEQA to mitigate significant environmental impacts in a disadvantaged community, Cornucopia will mitigate those impacts in compliance with CEQA and will implement any necessary mitigation



measures within the affected disadvantaged community, in a way that directly benefits that community.

3. As required by Public Resources Code Section 21189.82(a)(1)(B)(i), Cornucopia also agrees to pay the costs of the trial court and the Court of Appeal in hearing and deciding any case challenging the County's action on the Project, including payment of the costs for the appointment of a special master if deemed appropriate by the court, in a form and manner as provided in the Rules of Court adopted by the Judicial Council.
4. As required by Public Resources Code Section 21189.82(a)(1)(B)(ii), Cornucopia also agrees to pay the costs of preparing the record of proceedings for the Project concurrent with County review and consideration of the Project under CEQA, in a form and manner specified by the County.
5. As required by Public Resources Code Section 21189.83(a), should the Project ultimately be approved, Cornucopia also agrees to mitigate greenhouse gas emission impacts, if any, in accordance with Public Resources Code Section 21183.6.

Cornucopia hereby agrees to be bound by the commitments set forth in this letter.

Sincerely,

Cornucopia Hybrid LLC

By: Michael Stanton  
Michael Stanton (Oct 28, 2024 14:44 EDT)

Name: Michael Stanton

Title: Authorized Representative

Acknowledged by Fresno County

By: [Signature]

Name: Steve White

Title: Dirch Rep

# Attachment C

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Greenhouse Gas Analysis



**Rincon Consultants, Inc.**  
4589 North Marty Avenue, Unit 102  
Fresno, California 93722  
559-228-9925

September 4, 2024

Rincon Project No: 23-15487

John Crosby, Senior Permitting Manager  
BayWa r.e. Solar Projects, LLC  
18575 Jamboree Road, Suite 850  
Irvine, California 92612  
Via email: [john.crosby@baywa-re.com](mailto:john.crosby@baywa-re.com)

**Subject: Cornucopia Hybrid Project, Greenhouse Gas Analysis for Senate Bill 149 Application  
Unincorporated Fresno County, California**

Dear Mr. Crosby:

This study analyzes the greenhouse gas (GHG) emissions impacts of the proposed Cornucopia Hybrid Project (proposed project) in unincorporated Fresno County, California. The purpose of this study is to analyze the proposed project's GHG impacts related to both temporary construction activity and long-term operation of the proposed project with respect to Senate Bill (SB) 149 requirements. For Private Energy Infrastructure projects such as the proposed project, the project must not result in any net additional emissions of GHGs, including GHGs from employee transportation.

## **Project Description**

### **Project Location**

The project site is located in an unincorporated portion of Fresno County, California, situated between the unincorporated communities of Coalinga and Avenal. Interstate 5 (I-5) is located approximately 4 miles east of the project site. The project site is bifurcated north to south by Sutter Avenue and northwest to southeast by State Route (SR) 33 (South Lost Hills Road). The project includes approximately 2,446.46 acres of land (of which 1,618 will be disturbed/developed as part of the proposed project) at the base of the eastern slope of the Diablo Range. The project site is located within portions of eight parcels associated with Assessor's Parcel Numbers (APN) 090-030-06S, 090-030-04S, 090-030-02S, 090-030-03, 090-040-01, 085-110-23S, 085-110-12, and 085-110-13S (totaling approximately 2,905.80 acres). Figure 1 shows the regional location and Figure 2 shows the project site location and boundary.

The project site consists mostly of fallow agricultural land. The site is mostly surrounded by vacant agricultural land to the north, west, and south with residential uses to the southeast. There is a small residential area which lies just north of the northernmost portion of the project site along SR 33 and a commercial barn that borders the project site to the east of SR 33 at the junction of SR 33 with Sutter Avenue.

**Figure 1 Regional Location**

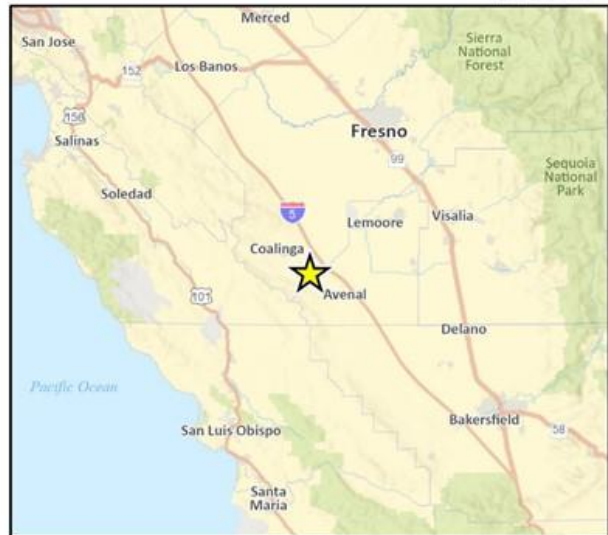


Imagery provided by Esri and its licensors © 2024.

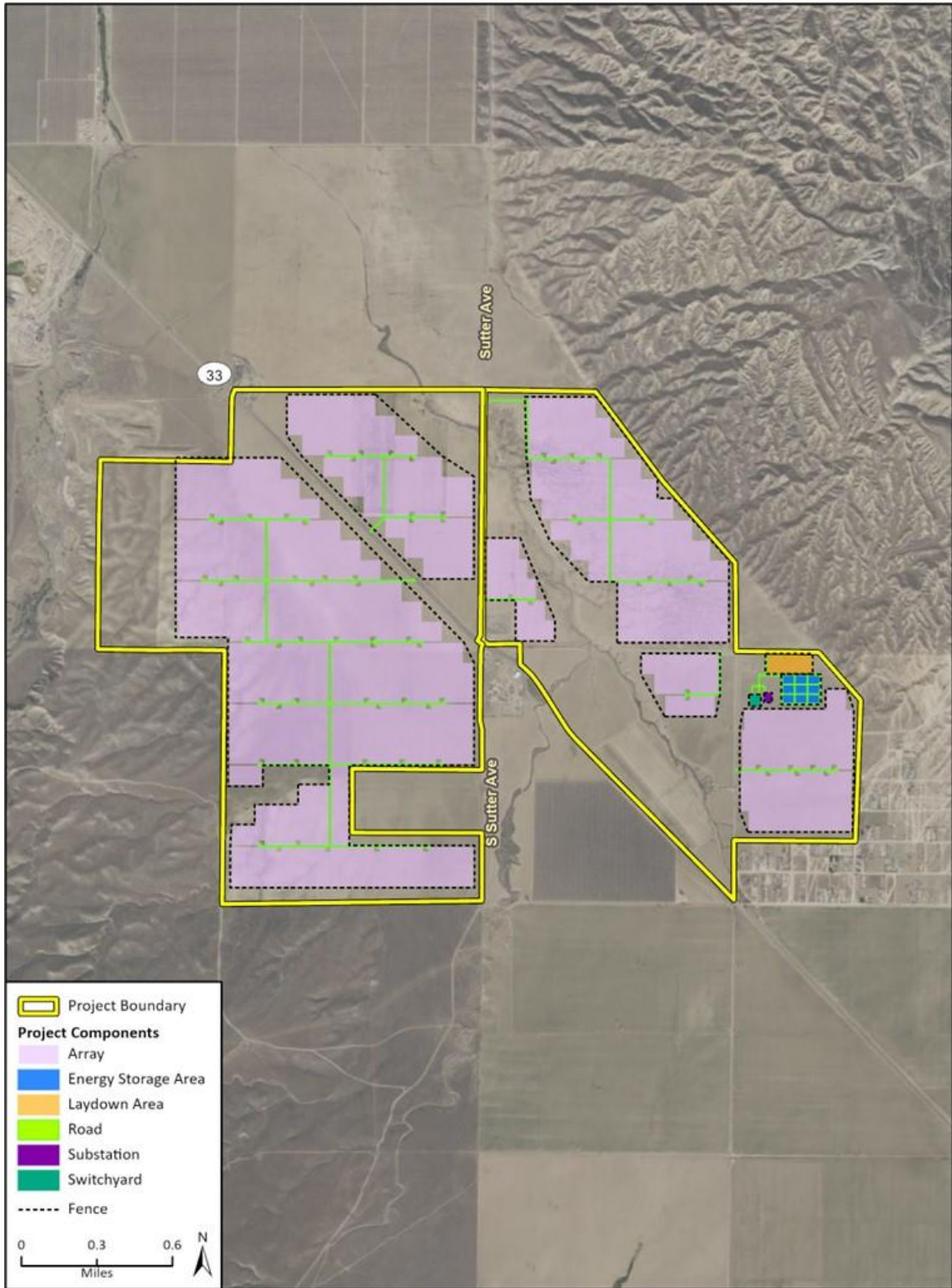
23-15487 EPS

Fig 1 Regional Location

Project Location



**Figure 2 Project Site Plan**



Imagery provided by Microsoft Bing and its licensors © 2024.

23-13487 EPS  
Fig 3 Site Plan, Portrait



## Project Description

The proposed project involves the construction and operation of a utility- scale 300-megawatt (MW) solar project, including a battery energy storage system (ESS), a substation, a Pacific Gas & Electric (PG&E) Switching Station and two prefabricated structures which would be used for maintenance and operation service and control services. The energy storage facility would consist of batteries with the potential to store approximately 300 megawatts of alternating current (MWac) energy. Figure 2 shows a preliminary site plan for the project.

The proposed project could use any commercially available battery technology or similar technology; however, lithium ion, iron flow, and sodium sulfur are the three options being considered at this time. Regardless of the battery type, battery cells form the core of the energy storage system. Multiple self-contained storage system enclosures would house the batteries with buried electrical conduits. The ESS would be located on approximately 12 acres of the project site. The EES enclosure would also house required heating, ventilation, and air conditioning (HVAC) and fire protection systems.

The substation would use high voltage transformers to step up the voltage received from the collector system to 230 kV. The substation would tie into PG&E's high voltage 230 kV Switching Station via a new transmission line located directly adjacent to the Switching Station. The footprint of the on-site project substation would be approximately 1 acre, and the Switching Station would be approximately 2 acres.

The energy would be transported to and from the project substation to/from the existing PG&E Gates Substation through a proposed approximately 200-foot long gen-tie line.

## Setting

### Local Climate and Meteorology

The project site is located in the San Joaquin Valley Air Basin (SJVAB) and is within the jurisdictional boundaries of the San Joaquin Valley Air Pollution Control District (SJVAPCD), which has jurisdiction over San Joaquin County. The SJVAB is approximately 250 miles long and 35 miles in width (on average) and is bordered by the Coast Range Mountains on the west, the Sierra Nevada mountains on the east, and the Tehachapi Mountains to the south. On the valley floor, the SJVAB is open only to the north, which heavily influences prevailing winds.<sup>1</sup>

Although marine air generally flows into the SJVAB from the San Francisco Bay Area through the Carquinez Strait (a gap in the Coast Range Mountains) and low mountain passes such as Altamont Pass and Pacheco Pass (low mountain passes in the Diablo Range), the mountain ranges restrict air movement through the SJVAB. Additionally, most of the surrounding mountains are above the normal height of summer inversion layers (1,500 to 3,000 feet). These topographic features result in weak airflow and poor dispersion of pollutants and, as a result, the SJVAB is highly susceptible to pollutant accumulation.

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<sup>1</sup> SJVAPCD. 2015. *Guide for Assessing and Mitigating Air Quality Impacts*, March 19, 2015. <https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF> (accessed March 2024)



## Greenhouse Gases

Gases that trap heat in the atmosphere are known as GHGs. GHGs allow sunlight to enter the atmosphere but trap a portion of the outward-bound infrared radiation that warms the air. The process is similar to the effect greenhouses have in raising the internal temperature of the structure. Both natural processes and human activities emit GHGs. The accumulation of GHGs in the atmosphere regulates the Earth's temperature, but emissions from human activities (such as fossil fuel-based electricity production and the use of motor vehicles) have elevated the concentration of GHGs in the atmosphere. Scientists agree that this accumulation of GHGs has contributed to an increase in the temperature of the Earth's atmosphere and to global climate change. Global climate change is a change in the average weather on Earth that can be measured by wind patterns, storms, precipitation, and temperature. Although there is disagreement as to the rate of global climate change and the extent of the impacts attributable to human activities, most scientists agree there is a direct link between increased emissions of GHGs and long-term global temperature increases.

The gases widely seen as the principal contributors to human-induced climate change include carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxides (N<sub>2</sub>O), fluorinated gases such as hydrofluorocarbons (HFCs) and perfluorocarbons (PFC), and sulfur hexafluoride (SF<sub>6</sub>). Water vapor is excluded from the list of GHGs because it is short-lived in the atmosphere, and natural processes, such as oceanic evaporation, largely determine its atmospheric concentrations.

GHGs are emitted by natural processes and human activities. Of these gases, CO<sub>2</sub> and CH<sub>4</sub> are emitted in the greatest quantities from human activities. Emissions of CO<sub>2</sub> are usually by-products of fossil fuel combustion, and CH<sub>4</sub> results from off-gassing associated with agricultural practices and landfills. Human-made GHGs, many of which have greater heat-absorption potential than CO<sub>2</sub>, include fluorinated gases and SF<sub>6</sub>.

The use of SF<sub>6</sub> in electric utility systems and switchgear, including circuit breakers, poses a concern because this pollutant has an extremely high GWP (one pound of SF<sub>6</sub> is the equivalent warming potential of approximately 24,600 pounds of CO<sub>2</sub>).<sup>2,3</sup> SF<sub>6</sub> is inert and non-toxic, and is encapsulated in circuit breaker assemblies. SF<sub>6</sub> is a GHG with substantial global warming potential because of its chemical nature and long residency time within the atmosphere. However, under normal conditions, it would be completely contained in the equipment and SF<sub>6</sub> would only be released in the unlikely event of a failure, leak, or crack in the circuit breaker housing. New circuit breaker designs have been developed over the past several years to minimize the potential for leakage, compared to that of past designs.

Different types of GHGs have varying global warming potentials (GWP). The GWP of a GHG is the potential of a gas or aerosol to trap heat in the atmosphere over a specified timescale (generally 100 years).<sup>4</sup> Because GHGs absorb different amounts of heat, a common reference gas (CO<sub>2</sub>) is used to relate the amount of heat absorbed to the amount of the gas emitted, referred to as "carbon dioxide equivalent" (CO<sub>2</sub>e), which is the amount of GHG emitted multiplied by its GWP. Carbon dioxide has a

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<sup>2</sup> Intergovernmental Panel on Climate Change (IPCC). 2021. Climate Change 2021 The Physical Science Basis. August. [https://www.ipcc.ch/report/ar6/wg1/downloads/report/IPCC\\_AR6\\_WGI\\_Full\\_Report.pdf](https://www.ipcc.ch/report/ar6/wg1/downloads/report/IPCC_AR6_WGI_Full_Report.pdf) (accessed March 2024)

<sup>3</sup> A global warming potential of 23,900 was used to convert emissions to CO<sub>2</sub>e. This value is based on the global warming potential in the USEPA Mandatory Reporting Program Regulations (40 Code of Federal Regulations Part 98, Subpart A), and deviates from the use of GWPs from the IPCC 6th Assessment Report which was used for the conversion of CH<sub>4</sub> and N<sub>2</sub>O.

<sup>4</sup> USEPA . 2021. Climate Change Indicators: Atmospheric Concentrations of Greenhouse Gases. Last updated April 2021. <https://www.epa.gov/climate-indicators/climate-change-indicators-atmospheric-concentrations-greenhouse-gases> (accessed March 2024).



100-year GWP of one. By contrast, methane has a GWP of 30, meaning its global warming effect is 30 times greater than CO<sub>2</sub> on a molecule per molecule basis.<sup>5</sup>

## Emissions Inventories

### Global Emissions Inventory

Worldwide anthropogenic GHG emissions totaled 47,000 million metric tons (MMT) of CO<sub>2</sub>e in 2015, which is a 43 percent increase from 1990 GHG levels.<sup>6</sup> Specifically, 34,522 MMT of CO<sub>2</sub>e of CO<sub>2</sub>, 8,241 MMT of CO<sub>2</sub>e of CH<sub>4</sub>, 2,997 MMT of CO<sub>2</sub>e of N<sub>2</sub>O, and 1,001 MMT of CO<sub>2</sub>e of fluorinated gases were emitted in 2015. The largest source of GHG emissions were energy production and fuel use from vehicles and buildings, which accounted for 75 percent of the global GHG emissions. Agriculture uses and industrial processes contributed 12 percent and six percent, respectively. Waste sources contributed three percent and international transportation sources contributed two percent. These sources account for approximately 98 percent because there was a net sink of two percent from land use change (including afforestation/reforestation and emissions removals by other land use activities).<sup>7</sup>

### United States Emissions Inventory

Total U.S. GHG emissions were 6,558 MMT of CO<sub>2</sub>e in 2019. Emissions decreased by 1.7 percent from 2018 to 2019. Since 1990, total U.S. emissions have increased by an average annual rate of 0.06 percent for a total increase of 1.8 percent between 1990 and 2019. The decrease from 2018 to 2019 reflects the combined influences of several long-term trends, including population changes, economic growth, energy market shifts, technological changes such as improvements in energy efficiency, and decrease carbon intensity of energy fuel choices. In 2019, the industrial and transportation end-use sectors accounted for 30 percent and 29 percent, respectively, of nationwide GHG emissions; while the commercial and residential end-use sectors accounted for 16 percent and 15 percent of nationwide GHG emissions, respectively, with electricity emissions distributed among the various sectors.<sup>8</sup>

### California Emissions Inventory

Based on the CARB California GHG Inventory for 2000-2019, California produced 418.2 MMT of CO<sub>2</sub>e in 2019, which is 7.2 MMT of CO<sub>2</sub>e lower than 2018 levels. The major source of GHG emissions in California is the transportation sector, which comprises 40 percent of the State's total GHG emissions. The industrial sector is the second largest source, comprising 21 percent of the State's GHG emissions, while electric power accounts for approximately 14 percent.<sup>9</sup> The magnitude of California's

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<sup>5</sup> The IPCC's (2021) Sixth Assessment Report determined that methane has a GWP of 30. However, the 2022 Climate Change Scoping Plan published by the CARB uses a GWP of 25 for methane, consistent with the Intergovernmental Panel on Climate Change's (2007) Fourth Assessment Report. Therefore, this analysis utilizes the GWPs from the Fourth Assessment Report.

<sup>6</sup> USEPA. 2023. "Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2019." Last updated: January 25, 2023. <https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks-1990-2019> (accessed March 2024).

<sup>7</sup> IBID

<sup>8</sup> USEPA. 2023c. "Endangerment and Cause or Contribute Findings for Greenhouse Gases Under Section 202(a) of the Clean Air Act." Last updated: April 4, 2023. <https://www.epa.gov/climate-change/endangerment-and-cause-or-contribute-findings-greenhouse-gases-under-section-202a> (accessed March 2024).

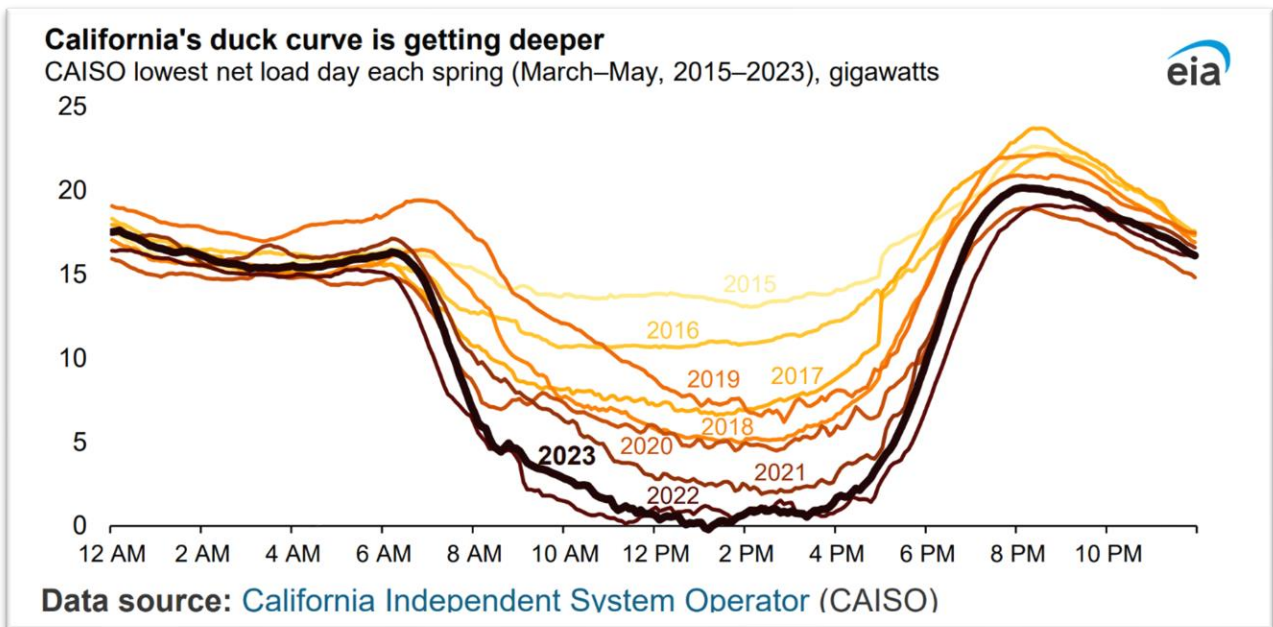
<sup>9</sup> CARB. 2021. California Greenhouse Gas Emissions for 2000 to 2019 Trends of Emissions and Other Indicators. July 28. [https://ww2.arb.ca.gov/sites/default/files/classic/cc/ca\\_ghg\\_inventory\\_trends\\_2000-2019.pdf](https://ww2.arb.ca.gov/sites/default/files/classic/cc/ca_ghg_inventory_trends_2000-2019.pdf) (accessed March 2024).



total GHG emissions is due in part to its large size and large population compared to other states. However, its relatively mild climate is a factor that reduces California’s per capita fuel use and GHG emissions as compared to other states. In 2016, the State of California achieved its 2020 GHG emission reduction target of reducing emissions to 1990 levels, as emissions fell below 431 MMT of CO<sub>2</sub>e.<sup>10</sup>

California’s demand for electricity is anticipated to increase 26 percent by 2030 and 76 percent by 2045.<sup>11</sup> This growth is a direct result of the effort to decarbonize buildings and transportation. Demand for electricity varies throughout the day with peak demand times from 8 PM to 6 AM as is demonstrated by Figure 3. California’s net load demand during the off-peak demand times when solar projects, such as the proposed project, generate electricity is low. Therefore, there is an increased need for storage such as the ESS facility that is being constructed as part of the proposed project. ESS facilities store electricity from the grid during off-peak hours and release that electricity to the grid during peak demand times, thus reducing the need to ramp-up generation from non-renewable sources during peak demand hours.

**Figure 3 California’s Duck Curve**



## Methodology

This section presents the methodology used for the analysis of existing site, construction, operational, decommissioning, and displaced emissions for the proposed project. Criteria pollutant and GHG emissions for project construction and operation were calculated using the California Emissions Estimator Model (CalEEMod) version 2022.1.22. CalEEMod is a statewide land use emissions

<sup>10</sup> IBID

<sup>11</sup> CARB. 2022. 2022 Scoping Plan for Achieving Carbon Neutrality. November 16. Available at: <https://ww2.arb.ca.gov/sites/default/files/2022-11/2022-sp.pdf> (accessed March 2024).



computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with both construction and operations from a variety of land use projects. CalEEMod allows for the use of default data (e.g., emission factors, trip lengths, meteorology, source inventory) provided by the various California air districts to account for local requirements and conditions, and/or user-defined inputs. The calculation methodology and input data used in CalEEMod can be found in the CalEEMod User's Guide Appendices A, D, and E.<sup>12</sup> The input data and construction and operation emission estimates for the proposed project are discussed below and provided in Attachment 1. CalEEMod output files for the proposed project are included in Attachment 2.

## Existing Site Emissions

The proposed project consists of mostly fallowed, idle agricultural land. The project site contains 110.41 acres of irrigated wheat fields, 10.81 acres of wild oat and Annual Brome Grasslands, 1,582.90 acres of fallow agriculture land, and 25.29 acres of access roads. CalEEMod was used to determine the current sequestration onsite from agricultural use and grasslands.<sup>13</sup>

## Construction and Decommissioning Emissions

Construction emissions of GHGs include emissions generated by construction equipment used on-site and emissions generated by vehicle trips associated with construction, such as worker and vendor trips, as well as GHG emissions from water supplied to the site for dust suppression. CalEEMod estimates construction emissions by multiplying the amount of time equipment is in operation by emission factors.

Construction equipment was estimated to operate between two and eight hours per day, with the exception of generator sets, which were assumed to operate 24 hours per day as a conservative assumption. Construction equipment inputs in CalEEMod used default horsepower information and load factor. Construction is estimated to occur Monday through Friday from 6:00 AM to 6:00 PM. Although construction activity could occur daily over a 12-hour period, it is unlikely that diesel-powered equipment would operate for more than 8 hours in a given day of construction. Based on the project-specific Water Supply Assessment prepared by Rincon Consultants, Inc. (June 2024), project construction would require approximately 1,080 acre-feet (351,972,000 gallons) of water for dust suppression over the course of the construction period.<sup>14</sup> Vendor and haul trips were modeled as exclusively heavy heavy-duty truck trips. The project is anticipated to generate a maximum of 1,200 daily vehicle trips (600 round trips) between workers and deliveries of equipment during the peak phase of construction (Photovoltaic Array Installation). Soils excavated during construction are assumed to be balanced on-site. Material import would be required for construction of approximately 10.75 miles of access roads. This analysis assumes that the proposed project would comply with all applicable regulatory standards. In particular, the proposed project would comply with SJVAPCD Regulation VIII (Fugitive PM<sub>10</sub> Prohibitions), Rule 2201 (New and Modified Stationary Source Review Rule), and Rule 8021 (Construction, Demolition, Excavation, Extraction, and Other Earthmoving

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<sup>12</sup> California Air Pollution Control Officers Association (CAPCOA). 2022. California Emissions Estimator Model User's Guide Version 2022.1. April. [https://caleemod.com/documents/user-guide/01\\_User%20Guide.pdf](https://caleemod.com/documents/user-guide/01_User%20Guide.pdf) (accessed March 2024).

<sup>13</sup> First Carbon Solutions. 2024. Biological Resources Technical Report Cornucopia Hybrid Project. County of Fresno, California.

<sup>14</sup> Rincon Consultants, Inc. 2024. Cornucopia Hybrid Project Water Supply Assessment. June 2024.



Activities). Detailed Assumptions are included in Attachment 1 for construction schedule and equipment usage.

At the end of the useful life of the proposed project (anticipated as 35 years), the proposed project shall be decommissioned. Decommissioning and site restoration would consist of the removal of all above and below ground structures and the restoration of topsoil, where applicable. Because decommissioning is a minimum of 35 years from the beginning of operations, the exact nature of the decommissioning activities and the equipment used is unknown. However, based on equipment, hauling, and labor estimates found in the Project's Reclamation Plan, decommissioning emissions were quantified using CalEEMod. CalEEMod does not include emission factors for years beyond 2050; therefore, it was assumed that decommissioning would occur over 12 months in 2050. Due to the increasing efficiency of vehicles, it is anticipated that the actual deconstruction activities would result in less emissions than are projected in this analysis.

## Operational Emissions

In CalEEMod, operational sources of criteria pollutant and GHG emissions include area, energy, and mobile sources. The first full year of operation was assumed to be 2030. The ESS facility was modeled as 95,000 square feet of refrigerated warehouses to account for the energy and refrigerant requirements for maintaining a stable temperature for optimum battery effectiveness, although this energy consumption is anticipated to be offset by the power generated at the site.

CalEEMod defaults were conservatively used to estimate emissions from annual architectural coating and consumer products use for the site. The project would not involve the consumption of natural gas. The solar portion of the project would not involve consumption of electricity from the grid during operation. On-site electrical needs from the solar portion of the project would be offset by the proposed project and no connection to the grid for operational use is necessary. As a conservative estimate of electrical emissions, the ESS facility is anticipated to be charged from the grid. The 300 MW system would be charged once per day during off-peak hours. The system is estimated to draw 438,000 MWh per year.<sup>15</sup>

Based on the project-specific Water Supply Assessment prepared by Rincon Consultants, Inc., project operation is estimated to require approximately 30.97 acre-feet (10,091,604 gallons) per year.<sup>16</sup>

During operations and maintenance, one of the sources of GHG emissions would come from sheep deployed onsite for vegetation management. CH<sub>4</sub> is produced as part of normal digestive processes in animals, particularly ruminant animals such as sheep. This digestive process, referred to as enteric fermentation, produces CH<sub>4</sub> as a byproduct, which can be exhaled or eructated by the animal. The amount of CH<sub>4</sub> produced and emitted by an individual animal depends primarily upon the animal's digestive system, and the amount and type of feed it consumes.<sup>17</sup> A 2023 study on prediction of enteric CH<sub>4</sub> published in the Journal of Cleaner Production indicated that an adult sheep emits, on average, approximately 19.7 grams per day of CH<sub>4</sub>.<sup>18</sup> Vegetation management during project operation would require deployment of approximately 2,000 sheep to the site. Although grazing seasons would vary

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<sup>15</sup> The 300 MW system is anticipated to be charged one time per day. For calculating kWhs, an average of 1,200 MWh per day was used. 1,200 MWh x 365 = 438,000 MWh/year.

<sup>16</sup> Rincon Consultants, Inc. 2024. Cornucopia Hybrid Project Water Supply Assessment June 2024.

<sup>17</sup> USEPA. 2023. "Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2019." Last updated: January 25, 2023. <https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks-1990-2019> (accessed March 2024).

<sup>18</sup> Belanche, et.al. Prediction of Enteric Methane Emissions by Sheep using an Intercontinental Database. January 2023. Journal of Cleaner Production, vol. 184. <https://www.sciencedirect.com/science/article/pii/S09596652622050971#bib13> (accessed May 2024).



based on weather conditions and precipitation, it is assumed that sheep would be deployed seasonally for approximately six months from February through June of each operational year. Therefore, total enteric CH<sub>4</sub> emissions would be approximately 7.2 MT. The GWP of CH<sub>4</sub> is 30, therefore the 7.2 MT per year from enteric fermentation would result in annual emissions of approximately 216 MT CO<sub>2</sub>e.

The proposed project would re-seed the site and establish grasslands throughout. The grasslands will act as a carbon sink and will sequester GHG emissions in both the biomass of the plant as well as storing in the soil. The sequestration from the grasslands was quantified in CalEEMod for the disturbed areas minus the acres associated with the access roads.

Another main source of GHG emissions during operations and maintenance would be refrigerants for battery cooling and fugitive emissions from equipment containing SF<sub>6</sub> gas installed at the proposed collector substation. The project would have six circuit breakers that contain SF<sub>6</sub>. However, new circuit breaker designs have been developed over the past several years to minimize the potential for leakage, compared to that of past designs.<sup>19</sup> In addition, the equipment would comply with CARB's Reducing Sulfur Hexafluoride Emissions from Gas Insulated Switchgear regulations. Based on experience with similar projects, it is conservatively assumed that the proposed project would require approximately six circuit breakers containing SF<sub>6</sub> gas at the substation. It is estimated that the project would maintain a total of 124 pounds (lbs) of SF<sub>6</sub> gas at the substation. Although leakage is unlikely, for the purposes of the project's emissions inventory, it was assumed that the breakers would have a maximum annual leak rate of 0.5% in accordance with the Institute of Electrical and Electronics (IEEE).<sup>20</sup> Assuming SF<sub>6</sub> leakage would not exceed 0.5 percent annually, total maximum annual SF<sub>6</sub> leakage would be up to 0.62 lbs (<0.01 metric ton [MT]). The GWP of SF<sub>6</sub> is 24,600, therefore the 0.62 lbs per year of annual leakage would result in annual emissions of approximately 7 MT CO<sub>2</sub>e.

It is anticipated that up to 2 workers would be required for each operation and maintenance visit (assumed to occur daily). Assuming 2.5 one-way trips per day per employee, on average the proposed project would result in an additional 5 trips per day, or 1,835 per year. Approximately 7 days per year an additional 20 workers per day would visit the site for major maintenance and inspections. Therefore, with a maximum of 22 employees on site and assuming 2.5 trips per employee, for 7 days a year the maximum number of worker trips would be 55 daily one-way trips, total of up to 2,175 trips worker trips per year.

## Displaced Emissions

The proposed project is incorporating a 300 MW battery energy storage system. The ESS would be charged daily from the grid during times of low demand when the solar generation is highest. The ESS would be discharged during peak demand hours to limit the need to increase production of electricity from non-renewable sources in order to meet peak demand. The ESS system is anticipated to be both charged and discharged daily. Because the ESS system will directly eliminate the need for non-renewable generation of energy, the annual throughput of the ESS system would count as displaced emissions. GHG emissions offsets from the operation of the ESS system were quantified outside of CalEEMod and the quantifications are provided in Attachment 1.

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<sup>19</sup> CARB. 2020. 2020 SF<sub>6</sub> Initial Statement Of Reasons: Reducing Sulfur Hexafluoride Emissions from Gas Insulated Switchgear. July 2020. <https://ww2.arb.ca.gov/sites/default/files/barcu/regact/2020/sf6/isor.pdf> (accessed March 2024).

<sup>20</sup> Institute of Electrical and Electronics Engineers (IEEE). 2018. PC37.122 - Standard for High Voltage Gas Insulated Substations Rated Above 52 kV. March 8, 2018. [https://standards.ieee.org/project/C37\\_122.html](https://standards.ieee.org/project/C37_122.html) (accessed March 2024).



## Results

### Existing Sequestration

The project site is currently fallow agricultural land with some active agriculture, active grasslands, and the remaining site is access roads. Based on 110.41 acres of irrigated wheat fields, 10.81 acres of wild oat and Annual Brome Grasslands, 1,582.90 acres of fallow agriculture land, the site currently sequesters approximately 1,314 MT CO<sub>2e</sub> annually. Over the course of the 35-year project, that would result in the sequestration of approximately 45,990 MT CO<sub>2e</sub> sequestered if the site remained as it currently is.

### Construction and Decommissioning Emissions

Project-related construction and decommissioning emissions are confined to a relatively short period in relation to the overall life of the proposed project. Table 1 shows that project construction would result in a total of approximately 6,792 MT CO<sub>2e</sub> for the 39-month construction period. Decommissioning would result in a total of approximately 1,678 MT CO<sub>2e</sub>. However, this assumption is conservative as it is likely additional carbon neutral technologies for construction equipment used in decommissioning will be implemented within the project lifespan.

**Table 1 Estimated Construction GHG Emissions**

| Source  | Project Emissions (MT CO <sub>2e</sub> ) |
|---|--|
| Total Construction <sup>1</sup>                         | 6,792                                    |
| Total Decommissioning                                   | 1,678                                    |
| <b>Total Construction and Decommissioning Emissions</b> | <b>8,470</b>                             |

<sup>1</sup>In order to quantify emissions from water supplied to the site for dust suppression, construction water consumption was input in CalEEMod as an operational use, then added to the total reported construction emissions.

MT = metric tons

CO<sub>2e</sub> = carbon dioxide equivalents

Source: Attachment 2. See also Methodology, for a description of modeling assumptions.

### Operational Emissions

The proposed project would generate GHG emissions during operation from minimal area source, energy consumption, and mobile emissions.<sup>21</sup> As shown in Table 2, the proposed project would generate approximately 639 MT of CO<sub>2e</sub> per year from operation of the solar facility, gen-tie, substation, and ESS for total project lifetime operational emissions of 22,365 MT CO<sub>2e</sub> before accounting for sequestration from grasslands. Accounting for the sequestration from the re-seeding of the site with grasslands results in a reduction of 2,390 MT CO<sub>2e</sub> annually or 83,650 over the lifetime of the project. Overall, project operational GHG emissions would result in a net reduction in GHG emissions of 1,751 MT CO<sub>2e</sub> annually or 61,285 MT CO<sub>2e</sub> over the life of the project.

<sup>21</sup> Area sources for this project refer to consumer products (such as aerosol cleaners), and architectural coating (maintenance re-coating activities for battery storage).



**Table 2 Estimated Operational GHG Emissions**

| Source                                       | Project Emissions MT CO <sub>2</sub> e |
|--|--|
| Mobile                                       | 60                                     |
| Area   | 1                                      |
| Energy                                       | 117                                    |
| Water  | 17                                     |
| Refrigerant                                  | 221                                    |
| SF <sub>6</sub>                              | 7                                      |
| Enteric CH <sub>4</sub> (Sheep Grazing)      | 216                                    |
| <b>Operational Emissions (annual)</b>        | <b>639</b>                             |
| Grassland sequestration (annual)             | (2,390)                                |
| <b>Project Total (annual)</b>                | <b>(1,751)</b>                         |
| <b>Operational Emissions (35-year total)</b> | <b>22,365</b>                          |
| Grassland sequestration (35-year total)      | (83,650)                               |
| <b>Project Total (35-year total)</b>         | <b>(61,285)</b>                        |

Note: Parenthetical notation represents negative numbers.

SF<sub>6</sub> = Sulphur hexafluoride; MT = Metric Tons; CO<sub>2</sub>e = carbon dioxide equivalent

Source: Attachment 1 and 2. See also Methodology, for a description of modeling assumptions.

## Total Project Emissions

As detailed above in Table 1 and Table 2, the proposed project would generate GHG emissions during construction, operation, and decommissioning activities. Construction activities would result in the generation of 6,792 MT CO<sub>2</sub>e, operations 22,365 MT CO<sub>2</sub>e, and decommissioning 1,678 MT CO<sub>2</sub>e over the 35-year life of the project. Total, the project would result in a combined project emissions of 30,835 MT CO<sub>2</sub>e, as shown on Table 3.

Taking into account the removal and replacement of vegetation on the project site, the project would remove an estimated 45,990 MT CO<sub>2</sub>e of potential sequestration from existing land uses by removal of existing vegetation. However, the project site would be re-seeded with grasslands resulting in sequestration of approximately 2,390 MT CO<sub>2</sub>e per year or 83,650 MT CO<sub>2</sub>e over the 35-year lifetime of the project (see Table 2).

As summarized in Table 3, the proposed project would emit 30,835 MT CO<sub>2</sub>e over the life-time of the project and would remove 45,990 MT CO<sub>2</sub>e of potential sequestration from existing land uses. Nonetheless, the proposed project would offset GHG emissions by both replacing grasslands as well as replacing electricity from fossil-fueled power plants with renewable sources. The ESS facility would directly offset 90,272 MT CO<sub>2</sub>e annually or 3,159,511 MT CO<sub>2</sub>e over the 35-year project life (see Attachment 1). Therefore, the net generation of GHG emissions would be an estimated -3,166,366 MT CO<sub>2</sub>e. As such, the project would be consistent with SB 149's requirement for no net additional GHG Emissions.



**Table 3 Estimated Project GHG Emissions over 35-year Project Lifetime**

| Source                            | Project Emissions MT CO <sub>2</sub> e |
|-----------------------------------|--|
| Construction                      | 6,792                                  |
| Operation                         | 22,365                                 |
| Decommissioning                   | 1,678                                  |
| <b>Combined Project Emissions</b> | <b>30,835</b>                          |
| Removed Sequestration             | 45,990                                 |
| Grassland Sequestration           | (83,650)                               |
| Displaced Emissions               | (3,159,511)                            |
| <b>Net Total</b>                  | <b>(3,166,366)</b>                     |

Note: Parenthetical notation represents negative numbers.  
 SF<sub>6</sub> = Sulphur hexafluoride; MT = Metric Tons; CO<sub>2</sub>e = carbon dioxide equivalent  
 Source: Attachment 1 and 2. See also Methodology, for a description of modeling assumptions.

## Conclusion

The proposed project would emit a total of 30,835 MT CO<sub>2</sub>e over the 35 years of anticipated project operation. The removal of existing vegetation would eliminate 45,990 MT CO<sub>2</sub>e of potential sequestration over the lifetime of the project. The re-establishment of grasslands on the site would result in sequestration of 83,650 MT CO<sub>2</sub>e over 35-years and the operation of the ESS facility implemented as a part of the proposed project would offset 3,159,511 MTCO<sub>2</sub>e over the 35 years of project operation. Therefore, overall, the proposed project would result in a net reduction of 3,166,366 MT CO<sub>2</sub>e over the lifetime of the project. The proposed project would offset the entire 35-years' worth of project construction and operational emissions in less than 1 year of ESS operation. The proposed project would not result in any net additional emissions of GHGs.

Sincerely,  
**Rincon Consultants, Inc.**

Heather M. Dubois  
 Senior Air Quality Specialist

## Attachments

- Attachment 1 Assumptions and Calculations
- Attachment 2 California Emissions Estimator Model Output

# Attachment 1

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Analysis Assumptions and Calculations



## Cornucopia Hybrid Solar Project General Assumptions

**CalEEMod Inputs that are not modeling defaults:**

|                                    |                    |        |
|------------------------------------|--------------------|--------|
| <b>Project Location</b>            | County             | Fresno |
|                                    | City               | Uninc. |
| <b>Address</b>                     | 36.040°/-120.2138° |        |
| <b>Climate Zone</b>                | Default            |        |
| <b>Air District</b>                | SJVAPCD            |        |
| <b>Urbanization</b>                | Rural              |        |
| <b>Operational Year (Buildout)</b> | 2029               |        |
| <b>Construction Start</b>          | Jan-26             |        |
| <b>Utility Company</b>             | PG&E               |        |

**Project Land Use**

|                          | Land Use Subtype        | Size  | Unit        | BSF      | Total Size   | Acres |
|--------------------------|-------------------------|-------|-------------|----------|--------------|-------|
| <b>Solar PV Facility</b> | Other Non-Asphalt       | 1593  | AC          |          |              | 1593  |
| <b>BESS*</b>             | Refrigerated Warehouse* | 12    | AC          | 50,000** |              |       |
| <b>Substation</b>        | General Light Industry  | 0.78  | AC          | 1,770    |              |       |
| <b>Gen-tie line**</b>    | Other Non-Asphalt       | 140   | linear feet |          | 2,800 sf     |       |
| <b>Switchyard</b>        | General Light Industry  | 1.43  | AC          |          |              |       |
| <b>Access Road**</b>     | Other Non-Asphalt       | 56760 | linear feet |          | 1,135,200 sf |       |
|                          |                         |       | (10.75 mi)  |          |              | 1,618 |

\*Refrigerated warehouse used as proxy for BESS. Building square footage based on similar sized BESS project (400 MW).

\*\*Assumes 20 ft width for linear uses

## Cornucopia Hybrid Solar Project Construction Assumptions

**Construction Activities:** 31-Months

**Project Schedule:** *Source: Client Provided Data needs* 6:00 AM to 6:00 PM

| Project Component | Construction Phase            | Start Date | End Date  | Days/Week | Duration (Months) |
|-------------------|-------------------------------|------------|-----------|-----------|-------------------|
| Solar PV Facility | Site Preparation/Grading      | 1/1/2026   | 1/31/2026 | 5         | 1                 |
|                   | PV System Installation        | 2/1/2026   | 1/31/2027 | 5         | 12                |
|                   | Substation/Gen-Tie/Switchyard | 2/1/2027   | 8/30/2027 | 5         | 6                 |
| BESS              | Site Preparation/Grading      | 9/1/2027   | 9/30/2027 | 5         | 1                 |
|                   | ESS System Installation       | 10/1/2027  | 8/30/2028 | 5         | 11                |
| Access Road       | Access Road                   | 1/1/2026   | 8/30/2027 | 5         | 19                |

**Cut and Fill**

|              |                      |       |            |
|--------------|----------------------|-------|------------|
| Grading      | Balanced             | Miles | Total (CY) |
|              | Assumes 1,000 CY per |       |            |
| Access Roads | mile.                | 10.75 | 10,750     |

*Source* EPA gravel road manual: [https://www.epa.gov/sites/default/files/2015-10/documents/2003\\_07\\_24\\_nps\\_gravelro](https://www.epa.gov/sites/default/files/2015-10/documents/2003_07_24_nps_gravelro)

**Offroad Equipment**

*Note* See Construction Equipment Tab

**Trips and VMT** From Data Requests

CalEEMod defaults, except for "PV Array" phase. Assumes maximum of 1200 one-way worker trips during PV Array (Grading) Phase

**Water for Dust Suppression**

1,080 AF  
351,972,000 Gallons

*Source* Cornucopia Hybrid Project Water Supply Assessment prepared by Rincon Consultants (June 2024)

## Cornucopia Hybrid Solar Project Operational Emissions

***Operational Schedule:***

Assumes daily O&M and one major maintenance per year.

|                              |            |                             |           |                        |            |                         |
|------------------------------|------------|-----------------------------|-----------|------------------------|------------|-------------------------|
| O&M                          | 365        | <i>days per year</i>        | 2         | workers per day        | 730        | workers per year        |
| Major Maintenance/inspection | 7          | <i>days per year</i>        | 20        | workers per day        | 140        | workers per year        |
| <b>Total</b>                 | <b>365</b> | <b><i>days per year</i></b> | <b>22</b> | <b>workers per day</b> | <b>870</b> | <b>workers per year</b> |

***Vehicle Trips:***

estimated each with own crew truck. MDV assumed for all trips

| <b>Phase</b>                 | <b># Workers</b> | <b>Vehicles/employee</b> | <b># Vehicles</b> | <b># 1-way trip VMT/trip</b> |    | <b>Daily VMT</b> | <b>Trips/year</b> |               |
|------------------------------|------------------|--------------------------|-------------------|------------------------------|----|------------------|-------------------|---------------|
| O&M                          | 2                | 1                        | 2                 | 5                            | 20 | 100              | 7300              | 146000        |
| Major Maintenance/inspection | 20               | 1                        | 20                | 50                           | 20 | 1000             | 140               | 2800          |
| <b>Total</b>                 |                  |                          |                   | <b>55</b>                    |    | <b>1100</b>      | <b>7440</b>       | <b>148800</b> |

\*Assumes 2.5 trips per employee per day.

**Area Sources**

Not Applicable

***Hearths:***

ads ***Consumer Products:***

Default

***Architectural Coating:***

Default

***Landscape Equipment:***

Default

**Energy Use**

Source:

Electricity

Default Electrical

Natural Gas & Propane

There is no natural gas or propane for the project

## Cornucopia Hybrid Solar Project Operational Emissions

### Water/Wastewater

#### **Water:**

30.97 acre-feet per year  
10,091,604 gallons per year

*Source* Cornucopia Hybrid Project Water Supply Assessment prepared by Rincon Consultants (June 2024)

#### **Wastewater:**

Default

### Solid Waste

0 tons/year

### SF6

6 circuit breakers  
124 lbs/project  
20.67 lbs/circuit breaker

| Phase Name | Type    | Equipment Type               | No. per Day (Imerys) | No. per Day (Cornucopia) | Fuel Type | Engine Tier | Hours Per Day | Horsepower | Load Factor | Notes:  |  |
|------------|---------|------------------------------|----------------------|--------------------------|-----------|-------------|---------------|------------|-------------|---|--|
| Grading    | Grading | Graders                      | 2                    | 1                        | 1 Diesel  | Average     | 8             | 148        | 0.41        | Based on Imerys Solar project assumptions (9,500 acres PV).<br>Conservatively scaled down by 50%.<br>Decimals rounded up to the nearest whole number. |  |
| Grading    | Grading | Excavators                   | 1                    | 1                        | 1 Diesel  | Average     | 8             | 36         | 0.38        |   |  |
| Grading    | Grading | Tractors/Loaders/Backhoes    | 3                    | 2                        | 2 Diesel  | Average     | 8             | 84         | 0.37        |   |  |
| Grading    | Grading | Scrapers                     | 0                    | 0                        | 0 Diesel  | Average     | 8             | 423        | 0.48        |   |  |
| Grading    | Grading | Rubber Tired Dozers          | 1                    | 1                        | 1 Diesel  | Average     | 8             | 367        | 0.4         |   |  |
| Grading    | Grading | Bore/Drill Rigs              | 3                    | 2                        | 2 Diesel  | Average     | 8             | 83         | 0.5         |   |  |
| Grading    | Grading | Air Compressors              | 2                    | 1                        | 1 Diesel  | Average     | 8             | 37         | 0.48        |   |  |
| Grading    | Grading | Crawler Tractors             | 2                    | 1                        | 1 Diesel  | Average     | 8             | 87         | 0.43        |   |  |
| Grading    | Grading | Dumpers/Tenders              | 2                    | 1                        | 1 Diesel  | Average     | 8             | 16         | 0.38        |   |  |
| Grading    | Grading | Generator Sets               | 1                    | 1                        | 1 Diesel  | Average     | 8             | 14         | 0.74        |   |  |
| Grading    | Grading | Trenchers                    | 1                    | 1                        | 1 Diesel  | Average     | 8             | 40         | 0.5         |   |  |
| Grading    | Grading | Other Construction Equipment | 1                    | 1                        | 1 Diesel  | Average     | 8             | 49         | 0.42        |   |  |
| Total      |         |                              |                      | 10                       |           |             |               |            |             |   |  |

| Phase Name               | Equipment Type                       | No. per Day (Imerys) | No. per Day (Cornucopia) | Fuel Type | Engine Tier | Hours Per Day | Horsepower | Load Factor | Notes:  |  |
|--------------------------|--------------------------------------|----------------------|--------------------------|-----------|-------------|---------------|------------|-------------|---|--|
| Solar Array Installation | Grading Forklifts                    | 8                    | 8                        | 8 Diesel  | Average     | 8             | 82         | 0.2         | Forty pieces total. Adapted from Imerys Solar project assumptions (9,500 acres PV). |  |
| Solar Array Installation | Grading Generator Sets               | 1                    | 1                        | 1 Diesel  | Average     | 8             | 14         | 0.74        |   |  |
| Solar Array Installation | Grading Cranes                       | 1                    | 1                        | 1 Diesel  | Average     | 7             |            | 0.29        |   |  |
| Solar Array Installation | Grading Welders                      | 0                    | 0                        | 0 Diesel  | Average     | 8             |            | 0.45        |   |  |
| Solar Array Installation | Grading Tractors/Loaders/Backhoes    | 2                    | 2                        | 2 Diesel  | Average     | 7             |            | 0.37        |   |  |
| Solar Array Installation | Grading Bore/Drill Rigs              | 3                    | 3                        | 3 Diesel  | Average     | 8             | 1,618      | 0.5         |   |  |
| Solar Array Installation | Grading Cement and Mortar Mixers     | 1                    | 1                        | 1 Diesel  | Average     | 8             | 10         | 0.56        |   |  |
| Solar Array Installation | Grading Air Compressors              | 2                    | 2                        | 2 Diesel  | Average     | 8             | 37         | 0.48        |   |  |
| Solar Array Installation | Grading Dumpers/Tenders              | 4                    | 4                        | 4 Diesel  | Average     | 8             | 16         | 0.38        |   |  |
| Solar Array Installation | Grading Off-Highway Tractors         | 4                    | 4                        | 4 Diesel  | Average     | 8             | 38         | 0.44        |   |  |
| Solar Array Installation | Grading Rough Terrain Forklifts      | 2                    | 2                        | 2 Diesel  | Average     | 8             | 96         | 0.4         |   |  |
| Solar Array Installation | Grading Trenchers                    | 1                    | 1                        | 1 Diesel  | Average     | 8             | 40         | 0.5         |   |  |
| Solar Array Installation | Grading Other Construction Equipment | 3                    | 3                        | 3 Diesel  | Average     | 8             | 49         | 0.42        |   |  |
| Total                    |                                      |                      |                          | 32        |             |               |            |             |   |  |

| Phase Name         | Equipment Type                 | No. per Day (Dos Palm) | No. per Day (Cornucopia) | Fuel Type | Engine Tier | Hours Per Day | Horsepower | Load Factor | Notes:  |  |
|--------------------|--------------------------------|------------------------|--------------------------|-----------|-------------|---------------|------------|-------------|---|--|
| Substation/Gen Tie | BC I Forklifts                 | 2                      | 1                        | 1 Diesel  | Average     | 6             | 82         | 0.2         | Six pieces total. Adapted from Dos Palmas BESS project assumptions. |  |
| Substation/Gen Tie | BC I Generator Sets            | 4                      | 1                        | 1 Diesel  | Average     | 24            | 14         | 0.74        |   |  |
| Substation/Gen Tie | BC I Cranes                    | 2                      | 0                        | 0 Diesel  | Average     | 6             | 367        | 0.29        |   |  |
| Substation/Gen Tie | BC I Welders                   | 0                      | 0                        | 0 Diesel  | Average     | 8             | 46         | 0.45        |   |  |
| Substation/Gen Tie | BC I Tractors/Loaders/Backhoes | 5                      | 1                        | 1 Diesel  | Average     | 6             | 84         | 0.37        |   |  |
| Substation/Gen Tie | BC I Plate Compactors          | 2                      | 0                        | 0 Diesel  | Average     | 6             | 8          | 0.43        |   |  |
| Substation/Gen Tie | BC I Air Compressors           | 4                      | 1                        | 1 Diesel  | Average     | 8             | 37         | 0.48        |   |  |
| Substation/Gen Tie | BC I Excavators                | 2                      | 1                        | 1 Diesel  | Average     | 6             | 36         | 0.38        |   |  |
| Substation/Gen Tie | BC I Graders                   | 1                      | 1                        | 1 Diesel  | Average     | 8             | 148        | 0.41        |   |  |
| Substation/Gen Tie | BC I Rollers                   | 2                      | 0                        | 0 Diesel  | Average     | 6             | 36         | 0.38        |   |  |
| Total              |                                |                        |                          | 6         |             |               |            |             |   |  |

| Phase Name | Equipment Type                   | No. per Day (Dos Palm) | No. per Day (Cornucopia) | Fuel Type | Engine Tier | Hours Per Day | Horsepower | Load Factor | Notes:   |  |
|------------|----------------------------------|------------------------|--------------------------|-----------|-------------|---------------|------------|-------------|--|--|
| Switchyard | BC III Forklifts                 | 2                      | 1                        | 1 Diesel  | Average     | 6             | 82         | 0.2         | Three pieces total for switchyard. Adapted from Dos Palmas BESS project assumptions. |  |
| Switchyard | BC III Generator Sets            | 4                      | 0                        | 0 Diesel  | Average     | 24            | 14         | 0.74        |  |  |
| Switchyard | BC III Cranes                    | 2                      | 0                        | 0 Diesel  | Average     | 6             | 367        | 0.29        |  |  |
| Switchyard | BC III Welders                   | 0                      | 0                        | 0 Diesel  | Average     | 8             | 46         | 0.45        |  |  |
| Switchyard | BC III Tractors/Loaders/Backhoes | 5                      | 1                        | 1 Diesel  | Average     | 6             | 84         | 0.37        |  |  |
| Switchyard | BC III Plate Compactors          | 2                      | 0                        | 0 Diesel  | Average     | 6             | 8          | 0.43        |  |  |
| Switchyard | BC III Air Compressors           | 4                      | 1                        | 1 Diesel  | Average     | 8             | 37         | 0.48        |  |  |
| Switchyard | BC III Excavators                | 2                      | 0                        | 0 Diesel  | Average     | 6             | 36         | 0.38        |  |  |
| Switchyard | BC III Graders                   | 1                      | 0                        | 0 Diesel  | Average     | 8             | 148        | 0.41        |  |  |
| Switchyard | BC III Rollers                   | 2                      | 0                        | 0 Diesel  | Average     | 6             | 36         | 0.38        |  |  |
| Total      |                                  |                        |                          | 3         |             |               |            |             |  |  |

| Phase Name | Equipment Type                  | No. per Day (Dos Palm) | No. per Day (Cornucopia) | Fuel Type | Engine Tier | Hours Per Day | Horsepower | Load Factor | Notes:                                    |  |
|------------|---------------------------------|------------------------|--------------------------|-----------|-------------|---------------|------------|-------------|---|--|
| BESS       | BC II Forklifts                 | 2                      | 1                        | 1 Diesel  | Average     | 4             | 82         | 0.2         | Six pieces total. Adapted from Dos Palmas |  |
| BESS       | BC II Generator Sets            | 4                      | 1                        | 1 Diesel  | Average     | 24            | 14         | 0.74        |   |  |
| BESS       | BC II Cranes                    | 2                      | 1                        | 1 Diesel  | Average     | 6             | 367        | 0.29        |   |  |
| BESS       | BC II Welders                   | 0                      | 0                        | 0 Diesel  | Average     | 8             | 46         | 0.45        |   |  |
| BESS       | BC II Tractors/Loaders/Backhoes | 6                      | 1                        | 1 Diesel  | Average     | 6             | 84         | 0.37        |   |  |
| BESS       | BC II Plate Compactors          | 2                      | 0                        | 0 Diesel  | Average     | 4             | 8          | 0.43        |   |  |
| BESS       | BC II Air Compressors           | 4                      | 1                        | 1 Diesel  | Average     | 6             | 37         | 0.48        |   |  |
| BESS       | BC II Excavators                | 2                      | 0                        | 0 Diesel  | Average     | 2             | 36         | 0.38        |   |  |
| BESS       | BC II Rollers                   | 2                      | 1                        | 1 Diesel  | Average     | 2             | 36         | 0.38        |   |  |
| Total      |                                 |                        |                          | 6         |             |               |            |             |   |  |

| Phase Name   | Equipment Type                    | No. per Day | No. per Day (Cornucopia) | Fuel Type | Engine Tier | Hours Per Day | Horsepower | Load Factor | Notes:   |
|--------------|-----------------------------------|-------------|--------------------------|-----------|-------------|---------------|------------|-------------|--|
| Access Roads | Grading Excavators                | N/A         | 2                        | 2 Diesel  | Average     | 8             | 36         | 0.38        | CalEEMod Defaults for Grading phase type. Gravel road. |
| Access Roads | Grading Graders                   | N/A         | 1                        | 1 Diesel  | Average     | 8             | 148        | 0.41        |  |
| Access Roads | Grading Rubber Tired Dozers       | N/A         | 1                        | 1 Diesel  | Average     | 8             | 367        | 0.4         |  |
| Access Roads | Grading Scrapers                  | N/A         | 2                        | 2 Diesel  | Average     | 8             | 423        | 0.48        |  |
| Access Roads | Grading Tractors/Loaders/Backhoes | N/A         | 2                        | 2 Diesel  | Average     | 8             | 84         | 0.37        |  |
| Total        |                                   |             |                          | 8         |             |               |            |             |  |

**Original Construction Schedule**

| Project Component        | Construction Phase            | Start Date | End Date  | Days/Week | Duration (Months) | Modeled As            | Notes  |
|--------------------------|-------------------------------|------------|-----------|-----------|-------------------|-----------------------|--|
| Solar PV Facility        | Site Preparation/Grading      | 1/1/2026   | 1/31/2026 | 5         | 1                 | Grading               | Based on Imerys  |
|                          | PV System Installation        | 2/1/2026   | 1/31/2027 | 5         | 12                | Building Construction | Based on Imerys  |
|                          | Substation/Gen-Tie/Switchyard | 2/1/2027   | 8/30/2027 | 5         | 7                 | Building Construction | Based on Dos Palmas  |
| <b>Solar PV Total</b>    |                               |            |           |           | <b>20</b>         |                       |  |
| BESS                     | Site Preparation/Grading      | 9/1/2027   | 9/30/2027 | 5         | 1                 | Grading               | Based on Dos Palmas  |
|                          | ESS System Installation       | 10/1/2027  | 8/30/2028 | 5         | 11                | Building Construction | Based on Dos Palmas  |
| <b>BESS Total</b>        |                               |            |           |           | <b>12</b>         |                       |  |
| Access Road              | Access Road                   | 1/1/2026   | 8/30/2027 | 5         | 20                | Grading               | CalEEMod Default equipment. Phase assumed to overlap with PV facility construction |
| <b>Access Road Total</b> |                               |            |           |           | <b>20</b>         |                       |  |

**REVISED Construction Schedule**

| Project Component        | Construction Phase       | Start Date | End Date   | Days/Week | Duration (Months) | Modeled As            | Equipment Notes             |
|--------------------------|--------------------------|------------|------------|-----------|-------------------|-----------------------|-----------------------------|
| Solar PV Facility        | Site Preparation/Grading | 10/1/2026  | 10/31/2026 | 5         | 1                 | Grading               | Based on Imerys             |
|                          | PV System Installation   | 11/1/2026  | 12/31/2029 | 5         | 38                | Building Construction | Based on Imerys             |
|                          | Substation/Gen-Tie       | 1/1/2027   | 12/31/2027 | 5         | 12                | Building Construction | Based on Dos Palmas         |
|                          | Switchyard               | 1/1/2027   | 3/31/2028  | 5         | 15                | Building Construction |                             |
| <b>Solar PV Total</b>    |                          |            |            |           | <b>18</b>         |                       |                             |
| BESS                     | ESS System Installation  | 11/1/2027  | 12/31/2029 | 5         | 26                | Building Construction | 1,618                       |
| <b>BESS Total</b>        |                          |            |            |           | <b>26</b>         |                       |                             |
| Access Road              | Access Road              | 11/1/2027  | 12/31/2029 | 5         | 26                | Grading               | CalEEMod Default equipment. |
| <b>Access Road Total</b> |                          |            |            |           | <b>26</b>         |                       |                             |

**Original Construction Schedule**

| Overall Construction Schedule (start and completion date for entire project) | First quarter of 2026 | Third quarter of 2028 |
|--|-----------------------|-----------------------|
| Solar PV Facility  | First quarter of 2026 | Third Quarter of 2027 |
| BESS   | Third quarter of 2027 | Third quarter of 2028 |
| Project Substation   | First Quarter of 2026 | Third Quarter of 2027 |
| Gen-tie Line   | First quarter of 2026 | Third Quarter of 2027 |
| Utility Switchyard   | First quarter of 2026 | Third Quarter of 2027 |
| Access Road  | First quarter of 2026 | Third Quarter of 2027 |

**REVISED Construction Schedule**

| Overall Construction Schedule (start and completion date for entire project) Total of 55 pieces | Fourth quarter 2026    | Fourth quarter of 2029 |
|---|------------------------|------------------------|
| Solar PV Facility (Forty Pieces)  | Fourth quarter 2026    | Fourth quarter of 2029 |
| BESS (Six Pieces)   | Third quarter of 2027  | First quarter of 2029  |
| Project Substation (Three Pieces)   | First quarter of 2027  | Fourth quarter of 2027 |
| Gen-tie Line (Three Pieces)   | First quarter of 2027  | Fourth quarter of 2027 |
| Utility Switchyard (Three pieces)   | First quarter of 2027  | First quarter of 2028  |
| Access Road (Included in Solar PV)  | Fourth quarter of 2026 | Fourth quarter of 2029 |

**Cornucopia Hybrid Solar Project**  
**Sheep Grazing Methane Emissions Quantifications**

***Sheep Grazing Enteric Fermentation Methane Emissions Quantification***

2000 Quantity of Sheep

19.7 *Mean Methane Production per sheep (g/day) (1)*

39400 *Total Methane Production (g/day)*

0.039 *Total Methane Production(MT/day)*

182.5 *Days of Grazing per Year (2)*

7.1905 *Total Methane Production (MT/year)*

30 *GWP*

216 *Max MT CO<sub>2</sub> e/year*

<sup>1</sup> Belanche, et.al. *Prediction of Enteric Methane Emissions by Sheep using an Intercontinental Database*. January 2023. Journal of Cleaner Production, vol. 184.

<https://www.sciencedirect.com/science/article/pii/S0959652622050971#bib13>

<sup>2</sup> Assumes active grazing from February to July (6 months)

## Cornucopia Hybrid Solar Project SF<sub>6</sub> Emissions Quantifications

### **SF<sub>6</sub> Emissions Quantification**

6 HV circuit breakers (500 kV equipment)<sup>1</sup>  
21 SF<sub>6</sub> max lbs/per circuit breaker<sup>1</sup>  
0.50% SF<sub>6</sub> leakage percentage per year<sup>2</sup>  
124 max lbs/project  
0.62 SF<sub>6</sub> max lbs leakage per year  
0.000454 lbs/MT  
0.000281 SF<sub>6</sub> max MT leakage per year  
24,600 GWP  
7 Max MT CO<sub>2</sub>e/year

<sup>1</sup> Based on Dos Palmas BESS

<sup>2</sup> IEEE (Institute of Electrical and Electronics Engineers). 2018. PC37.122 – Standard for High Voltage GasInsulated Substations Rated Above 52 kV. March 8, 2018.  
[https://standards.ieee.org/project/C37\\_122.html](https://standards.ieee.org/project/C37_122.html)



## Decommissioning Assumptions

**Construction Activities:** 12-Months

**Project Schedule:** *Source: Reclamation Plan*

| Project Component                           | Construction Phase    | Start Date* | End Date*  | Days/Week | Duration (Months) |
|---|-----------------------|-------------|------------|-----------|-------------------|
| Demo, Decommissioning, and Site Restoration | Building Construction | 1/1/2050    | 12/31/2050 | 5         | 12                |

Notes: With project completion anticipated in 2029, assumed decommissioning year would be 2064. However, CalEEMod does not include emission factors beyond 2050. Therefore, Construction is assumed to occur in 2050. Emission factors would be lower in future years, so this represents a conservative scenario.

See Reclamation Plan Appendices; p. 21/24

### Demolition - Material Hauling

| Material                      | Total (Tons) Weight |
|-------------------------------|---------------------|
| Solar Panel Racking Vert      | 451                 |
| Solar Panel Racking Horiz     | 33,983              |
| Solar Inverters               | 1,191               |
| Solar Panel Above Ground Wire | 179                 |
| Solar Panel Below Ground Wire | 179                 |
| Battery Units                 | 362                 |
| Battery Inverters             | 1,138               |
| Perimeter Fencing             | 134                 |
| Gravel roads                  | 21,368              |
| <b>Total</b>                  | <b>58,983</b>       |

*Source: Reclamation Plan Appendix B: Cost Estimate*

### Offroad Equipment

- 6 Forklift
- 1 Crane
- 4 Loader
- 2 Backhoe
- 3 Excavator
- 1 Dozer
- 6 Trencher Chain
- 13 Vibratory Hydraulic Extractor

*Source: Reclamation Plan Appendix B: Cost Estimate*

### Trips and VMT

- 176 Workers
- 352 One-Way Trips

*Source: Reclamation Plan Appendix B: Cost Estimate*

**Displaced Energy Production during 35-year Project life**

| Annual Energy Production                    | Annual Average Solar Radiation Hours/Day/Year |
|---|---|
| Grid Size (MW)                              | 300   |
| Total hrs/year                              |   |
| % Operational time <sup>1</sup>             |   |
| Operational hours/year                      |   |
| KWh produced per year                       | 438,000,000                                   |
| Assumed Heat Rate (Btu/KWh)                 | 10,000  |
| Annual Fuel Equivalent (MMBtu) <sup>2</sup> | 4,380,000                                     |

Notes:

The BESS is 300MW of storage and it stores for 4 hours, making the system capable of 1,200 MWh per day. 365 x 1,200MWh x 1,000kWh/MWh = 438,000,000kWh/year for the maximum potential  
#NAME?

| CA Power Mix <sup>3</sup>         | Annual Fuel Displacement (MMBtu) |
|-----------------------------------|----------------------------------|
| Coal <sup>4</sup>                 | 94,170                           |
| Large Hydro                       | 404,712                          |
| Natural Gas <sup>5</sup>          | 1,593,444                        |
| Nuclear                           | 402,084                          |
| Oil                               | 0                                |
| Other (petroleum coke/waste heat) | 4,818                            |
| Renewables                        | 1,569,354                        |
| Unspecified sources of Power      | 311,418                          |
| <b>Total</b>                      | <b>4,380,000</b>                 |

**Annual Pollutant Displacement<sup>4</sup>**

| Natural Gas Turbine Emissions |   |                                       |                           |                            |  |
|-------------------------------|---|---------------------------------------|---------------------------|----------------------------|--|
| Pollutant                     | AP-42 Emission Factor (lb/MMBtu) <sup>5</sup> | Controlled Emission Factor (lb/MMBtu) | Controlled Emissions (lb) | Controlled Emissions (ton) | AP-42 Emission Factor Source Notes <sup>5</sup>              |
| NO <sub>2</sub>               | 0.099   | 0.099                                 | 157,751                   | 78.88                      | Table 3.1-1, lean premix; Assume SCR Control Efficiency      |
| CO                            | 0.015   | 0.015                                 | 23,902                    | 11.95                      | Table 3.1-1, lean premix; Assume Ox. Cat. Control Efficiency |
| PM <sub>10</sub>              | 0.0047  | 0.0047                                | 7,489                     | 3.74                       | Table 3.1-2a, PM (condensable)                               |
| PM <sub>2.5</sub>             | 0.0019  | 0.0019                                | 3,028                     | 1.51                       | Table 3.1-2a, PM (filterable)                                |
| SO <sub>2</sub>               | 0.0034  | 0.0034                                | 5,418                     | 2.71                       | Table 3.1-2a   |
| CO <sub>2</sub>               | 110   | 110                                   | 175,278,840               | 87,639.42                  | Table 3.1-2a   |

| Coal Combustion Emissions      |   |                                     |                             |                 |   |
|--------------------------------|---|-------------------------------------|-----------------------------|-----------------|---|
| Pollutant                      | AP-42 Emission Factor (lb/ton) <sup>6</sup> | Controlled Emission Factor (lb/ton) | Emissions (lb) <sup>7</sup> | Emissions (ton) | AP-42 Emission Factor Source Notes <sup>6</sup>               |
| NO <sub>x</sub>                | 12  | 12                                  | 47085                       | 23.54           | Table 1.1-3 pulverized coal, wall fired, bituminous coal NSPS |
| CO                             | 0.5   | 0.5                                 | 1962                        | 0.98            | Table 1.1-3 pulverized coal, wall fired, bituminous coal NSPS |
| PM <sub>10</sub> <sup>8</sup>  | 0.46  | 0.084                               | 330                         | 0.16            | Table 1.1-4, PC-fired dry bottom wall-fired, scrubber control |
| PM <sub>2.5</sub> <sup>8</sup> | 0.12  | 0.06                                | 235                         | 0.12            | Table 1.1-4, PC-fired dry bottom wall-fired, scrubber control |
| SO <sub>2</sub> <sup>9</sup>   | 2.85  | 0.57                                | 2237                        | 1.12            | Table 1.1-3 pulverized coal, wall fired, bituminous coal NSPS |
| CO <sub>2</sub>                | 6040  | 6040                                | 23699450                    | 11,849.73       | Table 1.1-20  |
| Total NMHC                     | 0.06  | 0.06                                | 235                         | 0.12            | Table 1.1-19; assumed all hydrocarbons are reactive           |
| CH <sub>4</sub>                | 0.04  | 0.04                                | 157                         | 0.08            | Table 1.1-19  |
| N <sub>2</sub> O               | 0.03  | 0.03                                | 118                         | 0.06            | Table 1.1-19  |

| Total Displaced Emissions Associated With Direct Combustion |                        |                          |
|---|------------------------|--------------------------|
| Pollutant   | tons/year <sup>8</sup> | tons/lifetime (35 years) |
| ROG (NMHC)  | 0                      | 4                        |
| NO <sub>x</sub>   | 102                    | 3,585                    |
| CO  | 13                     | 453                      |
| PM <sub>10</sub>  | 4                      | 137                      |
| PM <sub>2.5</sub>   | 2                      | 57                       |
| SO <sub>x</sub>   | 4                      | 134                      |
| CO <sub>2</sub> E (Metric Ton)                              | 90,272                 | 3,159,511                |

Notes:

- Operational time is based on annual average solar radiation hours per day per year (5.38) for the project area. Source: solardirect.com (<https://www.solardirect.com/archives/pv/systems/gts/gts-sizing-sun-hours.html>)
- The Project is assumed to displace existing power generation equivalent to the current power mix each year of operation.
- CA Power Mix assumptions are based on data from the 2022 Total System Electric Generation Table. <https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2022-total-system-electric-generation>
- Combustion of natural gas and coal for power are of the greatest concern related to the generation of criteria pollutants and GHG emissions, therefore only fuel displacement of natural gas and coal due to electricity production from the Solar Scarlet facility are considered in this assessment.
- EPA Air Pollution Emission Factors AP-42 Section 3.1, Stationary Gas Turbines
- EPA Air Pollution Emission Factors AP-42 Section 1.1, Bituminous and Subbituminous Coal Combustion
- Coal characteristics used for conversion: Assumed coal heat content = 24 MMBtu/ton
- Total particulate matter (CPM-TOT) is expressed in terms of coal ash content therefore emission factor is determined by multiplying % ash content of coal (assumed to be 20% herein) by value listed in Table 1.1-4. Organic fraction of particulate matter is 20% of total CPM-TOT (Table 1.1-5) and listed as controlled emission factor.
- SO<sub>2</sub> emission factor calculated by multiplying the weight percent of sulfur (assumed to be 7.5%) by the value listed in Table 1.1-3
- CO<sub>2</sub>E volumes are in metric tons rather than short (US) tons

# Attachment 2

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California Emissions Estimator Model Output

# Cornucopia Hybrid v8 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
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
3. Construction Emissions Details
  - 3.1. Grading (2026) - Unmitigated
  - 3.3. PV Array (2026) - Unmitigated
  - 3.5. PV Array (2027) - Unmitigated
  - 3.7. PV Array (2028) - Unmitigated
  - 3.9. PV Array (2029) - Unmitigated

3.11. Access Roads (2027) - Unmitigated

3.13. Access Roads (2028) - Unmitigated

3.15. Access Roads (2029) - Unmitigated

3.17. BC I (2027) - Unmitigated

3.19. BC II (2027) - Unmitigated

3.21. BC II (2028) - Unmitigated

3.23. BC II (2029) - Unmitigated

3.25. BC III (2027) - Unmitigated

3.27. BC III (2028) - Unmitigated

#### 4. Operations Emissions Details

##### 4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

##### 4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

##### 4.3. Area Emissions by Source

4.3.1. Unmitigated

##### 4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

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

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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. Biomass Cover Type



5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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                | Cornucopia Hybrid v8                   |
| Construction Start Date     | 1/1/2026                               |
| Operational Year            | 2028                                   |
| Lead Agency                 | —                                      |
| Land Use Scale              | Project/site                           |
| Analysis Level for Defaults | County                                 |
| Windspeed (m/s)             | 3.50                                   |
| Precipitation (days)        | 16.8                                   |
| Location                    | 36.04973174671923, -120.19815765059295 |
| County                      | Fresno                                 |
| City                        | Unincorporated                         |
| Air District                | San Joaquin Valley APCD                |
| Air Basin                   | San Joaquin Valley                     |
| TAZ                         | 2506                                   |
| EDFZ                        | 5                                      |
| Electric Utility            | Pacific Gas & Electric Company         |
| Gas Utility                 | Southern California Gas                |
| App Version                 | 2022.1.1.26                            |

## 1.2. Land Use Types

| Land Use Subtype | Size | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|------------------|------|------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
|------------------|------|------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|

|                                |       |          |       |        |      |      |   |   |
|--------------------------------|-------|----------|-------|--------|------|------|---|---|
| Other Non-Asphalt Surfaces     | 1,618 | Acre     | 1,618 | 0.00   | 0.00 | 0.00 | — | PV Array, gen-tie line, and access roads. |
| General Light Industry         | 1.77  | 1000sqft | 2.21  | 1,770  | 0.00 | —    | — | Substation and switchyard                 |
| Refrigerated Warehouse-No Rail | 50.0  | 1000sqft | 12.0  | 50,000 | 0.00 | —    | — | BESS                                      |

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

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

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

| Un/Mit.             | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 12.6 | 11.0 | 63.0 | 114  | 0.15 | 2.22  | 1,100 | 1,103 | 2.04   | 111    | 113    | —    | 22,314 | 22,314 | 0.81 | 0.45 | 20.7 | 22,489 |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 14.1 | 12.1 | 76.8 | 123  | 0.17 | 2.78  | 1,116 | 1,118 | 2.56   | 113    | 115    | —    | 23,934 | 23,934 | 0.97 | 0.53 | 0.61 | 24,118 |
| Average Daily (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 8.81 | 7.62 | 45.7 | 77.6 | 0.11 | 1.60  | 753   | 755   | 1.47   | 76.1   | 77.6   | —    | 15,702 | 15,702 | 0.60 | 0.33 | 6.41 | 15,821 |
| Annual (Max)        | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 1.61 | 1.39 | 8.35 | 14.2 | 0.02 | 0.29  | 137   | 138   | 0.27   | 13.9   | 14.2   | —    | 2,600  | 2,600  | 0.10 | 0.05 | 1.06 | 2,619  |

## 2.2. Construction Emissions by Year, Unmitigated

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

| Year                 | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O     | R       | CO2e   |
|----------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|---------|---------|--------|
| Daily - Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —       | —      |
| 2027                 | 5.45 | 4.55 | 41.0 | 57.4 | 0.09    | 1.47  | 15.3  | 16.8  | 1.35   | 1.54   | 2.89   | —    | 9,339  | 9,339  | 0.38 | 0.11    | 0.50    | 9,383  |
| 2028                 | 12.6 | 11.0 | 63.0 | 114  | 0.15    | 2.22  | 1,100 | 1,103 | 2.04   | 111    | 113    | —    | 22,314 | 22,314 | 0.81 | 0.45    | 20.7    | 22,489 |
| 2029                 | 12.2 | 10.6 | 60.2 | 111  | 0.15    | 2.06  | 1,100 | 1,102 | 1.90   | 111    | 113    | —    | 22,177 | 22,177 | 0.78 | 0.45    | 18.4    | 22,348 |
| Daily - Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —       | —      |
| 2026                 | 4.17 | 3.50 | 31.9 | 43.9 | 0.07    | 1.24  | 31.4  | 32.5  | 1.14   | 3.86   | 4.84   | —    | 7,085  | 7,085  | 0.29 | 0.06    | 0.02    | 7,109  |
| 2027                 | 14.1 | 12.1 | 76.8 | 123  | 0.17    | 2.78  | 1,116 | 1,118 | 2.56   | 113    | 115    | —    | 23,934 | 23,934 | 0.97 | 0.53    | 0.61    | 24,118 |
| 2028                 | 12.5 | 10.8 | 66.0 | 111  | 0.15    | 2.28  | 1,108 | 1,110 | 2.10   | 112    | 114    | —    | 22,183 | 22,183 | 0.88 | 0.50    | 0.54    | 22,355 |
| 2029                 | 11.7 | 10.1 | 60.8 | 105  | 0.15    | 2.06  | 1,100 | 1,102 | 1.90   | 111    | 113    | —    | 21,428 | 21,428 | 0.86 | 0.48    | 0.48    | 21,592 |
| Average Daily        | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —       | —      |
| 2026                 | 0.70 | 0.59 | 5.26 | 7.02 | 0.01    | 0.21  | 1.81  | 2.03  | 0.20   | 0.22   | 0.42   | —    | 1,137  | 1,137  | 0.05 | 0.01    | 0.02    | 1,141  |
| 2027                 | 4.93 | 4.19 | 33.5 | 48.9 | 0.07    | 1.21  | 136   | 137   | 1.11   | 13.7   | 14.8   | —    | 8,441  | 8,441  | 0.33 | 0.13    | 1.34    | 8,490  |
| 2028                 | 8.81 | 7.62 | 45.7 | 77.6 | 0.11    | 1.60  | 753   | 755   | 1.47   | 76.1   | 77.6   | —    | 15,702 | 15,702 | 0.60 | 0.33    | 6.41    | 15,821 |
| 2029                 | 8.40 | 7.25 | 43.2 | 75.0 | 0.11    | 1.47  | 750   | 752   | 1.36   | 75.8   | 77.2   | —    | 15,457 | 15,457 | 0.58 | 0.32    | 5.69    | 15,573 |
| Annual               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —       | —      |
| 2026                 | 0.13 | 0.11 | 0.96 | 1.28 | < 0.005 | 0.04  | 0.33  | 0.37  | 0.04   | 0.04   | 0.08   | —    | 188    | 188    | 0.01 | < 0.005 | < 0.005 | 189    |
| 2027                 | 0.90 | 0.76 | 6.12 | 8.92 | 0.01    | 0.22  | 24.8  | 25.0  | 0.20   | 2.50   | 2.71   | —    | 1,397  | 1,397  | 0.06 | 0.02    | 0.22    | 1,406  |
| 2028                 | 1.61 | 1.39 | 8.35 | 14.2 | 0.02    | 0.29  | 137   | 138   | 0.27   | 13.9   | 14.2   | —    | 2,600  | 2,600  | 0.10 | 0.05    | 1.06    | 2,619  |
| 2029                 | 1.53 | 1.32 | 7.88 | 13.7 | 0.02    | 0.27  | 137   | 137   | 0.25   | 13.8   | 14.1   | —    | 2,559  | 2,559  | 0.10 | 0.05    | 0.94    | 2,578  |

## 2.4. Operations Emissions Compared Against Thresholds

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

| Un/Mit.             | TOG  | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D | PM10T | PM2.5E  | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R     | CO2e  |
|---------------------|------|------|------|------|---------|---------|-------|-------|---------|--------|--------|------|-------|-------|------|------|-------|-------|
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —    | —    | —     | —     |
| Unmit.              | 12.6 | 12.5 | 0.09 | 3.43 | < 0.005 | 0.01    | 0.28  | 0.29  | < 0.005 | 0.07   | 0.08   | 45.9 | 1,590 | 1,636 | 4.83 | 0.08 | 1,334 | 3,114 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —    | —    | —     | —     |
| Unmit.              | 12.2 | 12.2 | 0.09 | 0.82 | < 0.005 | < 0.005 | 0.28  | 0.28  | < 0.005 | 0.07   | 0.07   | 45.9 | 1,547 | 1,593 | 4.83 | 0.08 | 1,333 | 3,071 |
| Average Daily (Max) | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —    | —    | —     | —     |
| Unmit.              | 12.4 | 12.3 | 0.09 | 2.00 | < 0.005 | < 0.005 | 0.28  | 0.28  | < 0.005 | 0.07   | 0.07   | 45.9 | 1,562 | 1,607 | 4.83 | 0.08 | 1,333 | 3,085 |
| Annual (Max)        | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —    | —    | —     | —     |
| Unmit.              | 2.26 | 2.25 | 0.02 | 0.37 | < 0.005 | < 0.005 | 0.05  | 0.05  | < 0.005 | 0.01   | 0.01   | 7.59 | 259   | 266   | 0.80 | 0.01 | 221   | 511   |

## 2.5. Operations Emissions by Sector, Unmitigated

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

| Sector              | TOG  | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R     | CO2e  |
|---------------------|------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|-------|---------|---------|-------|-------|
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —     | —     |
| Mobile              | 0.08 | 0.07 | 0.07 | 1.18 | < 0.005 | < 0.005 | 0.28  | 0.28    | < 0.005 | 0.07   | 0.07    | —    | 385   | 385   | 0.01    | 0.01    | 0.94  | 388   |
| Area                | 12.5 | 12.5 | 0.02 | 2.25 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 9.26  | 9.26  | < 0.005 | < 0.005 | —     | 9.29  |
| Energy              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | —     | 0.00    | 0.00    | —      | 0.00    | —    | 698   | 698   | 0.11    | 0.01    | —     | 705   |
| Water               | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | 19.3 | 498   | 518   | 2.06    | 0.06    | —     | 586   |
| Waste               | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | 26.5 | 0.00  | 26.5  | 2.65    | 0.00    | —     | 92.8  |
| Refrig.             | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | 1,333 | 1,333 |
| Total               | 12.6 | 12.5 | 0.09 | 3.43 | < 0.005 | 0.01    | 0.28  | 0.29    | < 0.005 | 0.07   | 0.08    | 45.9 | 1,590 | 1,636 | 4.83    | 0.08    | 1,334 | 3,114 |

|                     |      |      |         |      |         |         |      |         |         |      |         |      |       |       |         |         |       |       |
|---------------------|------|------|---------|------|---------|---------|------|---------|---------|------|---------|------|-------|-------|---------|---------|-------|-------|
| Daily, Winter (Max) | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —     | —     |
| Mobile              | 0.07 | 0.06 | 0.09    | 0.82 | < 0.005 | < 0.005 | 0.28 | 0.28    | < 0.005 | 0.07 | 0.07    | —    | 351   | 351   | 0.01    | 0.01    | 0.02  | 354   |
| Area                | 12.1 | 12.1 | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —     | —     |
| Energy              | 0.00 | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | —    | 0.00    | 0.00    | —    | 0.00    | —    | 698   | 698   | 0.11    | 0.01    | —     | 705   |
| Water               | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | 19.3 | 498   | 518   | 2.06    | 0.06    | —     | 586   |
| Waste               | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | 26.5 | 0.00  | 26.5  | 2.65    | 0.00    | —     | 92.8  |
| Refrig.             | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 1,333 | 1,333 |
| Total               | 12.2 | 12.2 | 0.09    | 0.82 | < 0.005 | < 0.005 | 0.28 | 0.28    | < 0.005 | 0.07 | 0.07    | 45.9 | 1,547 | 1,593 | 4.83    | 0.08    | 1,333 | 3,071 |
| Average Daily       | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —     | —     |
| Mobile              | 0.07 | 0.06 | 0.08    | 0.89 | < 0.005 | < 0.005 | 0.28 | 0.28    | < 0.005 | 0.07 | 0.07    | —    | 361   | 361   | 0.01    | 0.01    | 0.41  | 364   |
| Area                | 12.3 | 12.3 | 0.01    | 1.11 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 4.57  | 4.57  | < 0.005 | < 0.005 | —     | 4.58  |
| Energy              | 0.00 | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | —    | 0.00    | 0.00    | —    | 0.00    | —    | 698   | 698   | 0.11    | 0.01    | —     | 705   |
| Water               | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | 19.3 | 498   | 518   | 2.06    | 0.06    | —     | 586   |
| Waste               | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | 26.5 | 0.00  | 26.5  | 2.65    | 0.00    | —     | 92.8  |
| Refrig.             | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 1,333 | 1,333 |
| Total               | 12.4 | 12.3 | 0.09    | 2.00 | < 0.005 | < 0.005 | 0.28 | 0.28    | < 0.005 | 0.07 | 0.07    | 45.9 | 1,562 | 1,607 | 4.83    | 0.08    | 1,333 | 3,085 |
| Annual              | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —     | —     |
| Mobile              | 0.01 | 0.01 | 0.01    | 0.16 | < 0.005 | < 0.005 | 0.05 | 0.05    | < 0.005 | 0.01 | 0.01    | —    | 59.7  | 59.7  | < 0.005 | < 0.005 | 0.07  | 60.2  |
| Area                | 2.24 | 2.24 | < 0.005 | 0.20 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 0.76  | 0.76  | < 0.005 | < 0.005 | —     | 0.76  |
| Energy              | 0.00 | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | —    | 0.00    | 0.00    | —    | 0.00    | —    | 116   | 116   | 0.02    | < 0.005 | —     | 117   |
| Water               | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | 3.20 | 82.5  | 85.7  | 0.34    | 0.01    | —     | 97.0  |
| Waste               | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | 4.39 | 0.00  | 4.39  | 0.44    | 0.00    | —     | 15.4  |
| Refrig.             | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 221   | 221   |
| Total               | 2.26 | 2.25 | 0.02    | 0.37 | < 0.005 | < 0.005 | 0.05 | 0.05    | < 0.005 | 0.01 | 0.01    | 7.59 | 259   | 266   | 0.80    | 0.01    | 221   | 511   |

### 3. Construction Emissions Details

## 3.1. Grading (2026) - Unmitigated

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

| Location                    | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R    | CO2e  |
|-----------------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|---------|------|-------|
| Onsite                      | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Daily, Winter (Max)         | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 3.19 | 2.67 | 24.0 | 28.6 | 0.04    | 1.06  | —     | 1.06  | 0.98   | —      | 0.98   | —    | 4,658 | 4,658 | 0.19 | 0.04    | —    | 4,674 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —     | 1.98  | 1.98  | —      | 0.91   | 0.91   | —    | —     | —     | —    | —       | —    | —     |
| 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 Daily               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.19 | 0.16 | 1.45 | 1.72 | < 0.005 | 0.06  | —     | 0.06  | 0.06   | —      | 0.06   | —    | 281   | 281   | 0.01 | < 0.005 | —    | 282   |
| Dust From Material Movement | —    | —    | —    | —    | —       | —     | 0.12  | 0.12  | —      | 0.05   | 0.05   | —    | —     | —     | —    | —       | —    | —     |
| 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  |
| Annual                      | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |

|                             |         |         |         |      |         |      |      |      |      |      |      |   |      |      |         |         |         |      |
|-----------------------------|---------|---------|---------|------|---------|------|------|------|------|------|------|---|------|------|---------|---------|---------|------|
| Off-Road Equipment          | 0.04    | 0.03    | 0.26    | 0.31 | < 0.005 | 0.01 | —    | 0.01 | 0.01 | —    | 0.01 | — | 46.5 | 46.5 | < 0.005 | < 0.005 | —       | 46.6 |
| Dust From Material Movement | —       | —       | —       | —    | —       | —    | 0.02 | 0.02 | —    | 0.01 | 0.01 | — | —    | —    | —       | —       | —       | —    |
| 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, Summer (Max)         | —       | —       | —       | —    | —       | —    | —    | —    | —    | —    | —    | — | —    | —    | —       | —       | —       | —    |
| Daily, Winter (Max)         | —       | —       | —       | —    | —       | —    | —    | —    | —    | —    | —    | — | —    | —    | —       | —       | —       | —    |
| Worker                      | 0.12    | 0.11    | 0.08    | 0.90 | 0.00    | 0.00 | 29.5 | 29.5 | 0.00 | 2.96 | 2.96 | — | 171  | 171  | 0.01    | 0.01    | 0.02    | 174  |
| 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 Daily               | —       | —       | —       | —    | —       | —    | —    | —    | —    | —    | —    | — | —    | —    | —       | —       | —       | —    |
| Worker                      | 0.01    | 0.01    | < 0.005 | 0.06 | 0.00    | 0.00 | 1.69 | 1.69 | 0.00 | 0.17 | 0.17 | — | 10.7 | 10.7 | < 0.005 | < 0.005 | 0.02    | 10.9 |
| 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                      | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00    | 0.00 | 0.31 | 0.31 | 0.00 | 0.03 | 0.03 | — | 1.77 | 1.77 | < 0.005 | < 0.005 | < 0.005 | 1.80 |
| 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 |

### 3.3. PV Array (2026) - Unmitigated

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



| Location                    | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R    | CO2e  |
|-----------------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|---------|------|-------|
| Onsite                      | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Daily, Winter (Max)         | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 4.17 | 3.50 | 31.9 | 43.9 | 0.07    | 1.24  | —     | 1.24  | 1.14   | —      | 1.14   | —    | 7,085 | 7,085 | 0.29 | 0.06    | —    | 7,109 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —     | 0.00  | 0.00  | —      | 0.00   | 0.00   | —    | —     | —     | —    | —       | —    | —     |
| 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 Daily               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.50 | 0.42 | 3.81 | 5.24 | 0.01    | 0.15  | —     | 0.15  | 0.14   | —      | 0.14   | —    | 846   | 846   | 0.03 | 0.01    | —    | 849   |
| Dust From Material Movement | —    | —    | —    | —    | —       | —     | 0.00  | 0.00  | —      | 0.00   | 0.00   | —    | —     | —     | —    | —       | —    | —     |
| 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  |
| Annual                      | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.09 | 0.08 | 0.70 | 0.96 | < 0.005 | 0.03  | —     | 0.03  | 0.02   | —      | 0.02   | —    | 140   | 140   | 0.01 | < 0.005 | —    | 141   |

|                             |      |      |      |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|
| Dust From Material Movement | —    | —    | —    | —    | —    | —    | 0.00 | 0.00 | —    | 0.00 | 0.00 | — | —    | —    | —    | —    | —    | —    |
| 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, Summer (Max)         | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —    | —    | —    | —    | —    | —    |
| Daily, Winter (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 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 |

### 3.5. PV Array (2027) - Unmitigated

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

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

|                             |      |      |      |      |      |      |      |      |      |      |      |   |       |       |      |      |      |       |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|------|------|------|-------|
| Daily, Summer (Max)         | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 3.96 | 3.31 | 30.5 | 43.8 | 0.07 | 1.08 | —    | 1.08 | 1.00 | —    | 1.00 | — | 7,082 | 7,082 | 0.29 | 0.06 | —    | 7,107 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —    | 0.00 | 0.00 | —    | 0.00 | 0.00 | — | —     | —     | —    | —    | —    | —     |
| 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, Winter (Max)         | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 3.96 | 3.31 | 30.5 | 43.8 | 0.07 | 1.08 | —    | 1.08 | 1.00 | —    | 1.00 | — | 7,082 | 7,082 | 0.29 | 0.06 | —    | 7,107 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —    | 0.00 | 0.00 | —    | 0.00 | 0.00 | — | —     | —     | —    | —    | —    | —     |
| 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 Daily               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 2.83 | 2.37 | 21.8 | 31.3 | 0.05 | 0.77 | —    | 0.77 | 0.71 | —    | 0.71 | — | 5,059 | 5,059 | 0.21 | 0.04 | —    | 5,076 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —    | 0.00 | 0.00 | —    | 0.00 | 0.00 | — | —     | —     | —    | —    | —    | —     |
| 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  |

|                             |      |      |      |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|
| Annual                      | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —    | —    | —    | —    | —    | —    |
| Off-Road Equipment          | 0.52 | 0.43 | 3.98 | 5.71 | 0.01 | 0.14 | —    | 0.14 | 0.13 | —    | 0.13 | — | 838  | 838  | 0.03 | 0.01 | —    | 840  |
| Dust From Material Movement | —    | —    | —    | —    | —    | —    | 0.00 | 0.00 | —    | 0.00 | 0.00 | — | —    | —    | —    | —    | —    | —    |
| 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, Summer (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, Winter (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 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 |

### 3.7. PV Array (2028) - Unmitigated

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

| Location                    | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite                      | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 3.84 | 3.22 | 29.6 | 43.9 | 0.07 | 0.99  | —     | 0.99  | 0.91   | —      | 0.91   | —    | 7,081 | 7,081 | 0.29 | 0.06 | —    | 7,105 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —     | 0.00  | 0.00  | —      | 0.00   | 0.00   | —    | —     | —     | —    | —    | —    | —     |
| 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, Winter (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 3.84 | 3.22 | 29.6 | 43.9 | 0.07 | 0.99  | —     | 0.99  | 0.91   | —      | 0.91   | —    | 7,081 | 7,081 | 0.29 | 0.06 | —    | 7,105 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —     | 0.00  | 0.00  | —      | 0.00   | 0.00   | —    | —     | —     | —    | —    | —    | —     |
| 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 Daily               | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 2.75 | 2.31 | 21.2 | 31.4 | 0.05 | 0.71  | —     | 0.71  | 0.65   | —      | 0.65   | —    | 5,072 | 5,072 | 0.21 | 0.04 | —    | 5,089 |

|                             |      |      |      |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|
| Dust From Material Movement | —    | —    | —    | —    | —    | —    | 0.00 | 0.00 | —    | 0.00 | 0.00 | — | —    | —    | —    | —    | —    | —    |
| 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 |
| Annual                      | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —    | —    | —    | —    | —    | —    |
| Off-Road Equipment          | 0.50 | 0.42 | 3.87 | 5.73 | 0.01 | 0.13 | —    | 0.13 | 0.12 | —    | 0.12 | — | 840  | 840  | 0.03 | 0.01 | —    | 843  |
| Dust From Material Movement | —    | —    | —    | —    | —    | —    | 0.00 | 0.00 | —    | 0.00 | 0.00 | — | —    | —    | —    | —    | —    | —    |
| 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, Summer (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, Winter (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 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 | 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 | 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 | 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 | 0.00 |

### 3.9. PV Array (2029) - Unmitigated

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

| Location                    | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite                      | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 3.75 | 3.14 | 28.9 | 43.8 | 0.07 | 0.91  | —     | 0.91  | 0.84   | —      | 0.84   | —    | 7,080 | 7,080 | 0.29 | 0.06 | —    | 7,104 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —     | 0.00  | 0.00  | —      | 0.00   | 0.00   | —    | —     | —     | —    | —    | —    | —     |
| 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, Winter (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 3.75 | 3.14 | 28.9 | 43.8 | 0.07 | 0.91  | —     | 0.91  | 0.84   | —      | 0.84   | —    | 7,080 | 7,080 | 0.29 | 0.06 | —    | 7,104 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —     | 0.00  | 0.00  | —      | 0.00   | 0.00   | —    | —     | —     | —    | —    | —    | —     |

|                             |      |      |      |      |      |      |      |      |      |      |      |      |       |       |      |      |      |       |      |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|-------|------|
| 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  | 0.00 |
| Average Daily               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | —    | —    | —    | —     | —    |
| Off-Road Equipment          | 2.68 | 2.24 | 20.7 | 31.3 | 0.05 | 0.65 | —    | 0.65 | 0.60 | —    | 0.60 | —    | 5,057 | 5,057 | 0.21 | 0.04 | —    | 5,074 |      |
| Dust From Material Movement | —    | —    | —    | —    | —    | —    | 0.00 | 0.00 | —    | 0.00 | 0.00 | —    | —     | —     | —    | —    | —    | —     |      |
| 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  |      |
| Annual                      | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | —    | —    | —    | —     |      |
| Off-Road Equipment          | 0.49 | 0.41 | 3.77 | 5.71 | 0.01 | 0.12 | —    | 0.12 | 0.11 | —    | 0.11 | —    | 837   | 837   | 0.03 | 0.01 | —    | 840   |      |
| Dust From Material Movement | —    | —    | —    | —    | —    | —    | 0.00 | 0.00 | —    | 0.00 | 0.00 | —    | —     | —     | —    | —    | —    | —     |      |
| 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, Summer (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, Winter (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 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 |

### 3.11. Access Roads (2027) - Unmitigated

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

| Location                    | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite                      | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Winter (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 3.51 | 2.95 | 25.6 | 27.3 | 0.06 | 1.04  | —     | 1.04  | 0.96   | —      | 0.96   | —    | 6,598 | 6,598 | 0.27 | 0.05 | —    | 6,621 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —     | 2.39  | 2.39  | —      | 0.95   | 0.95   | —    | —     | —     | —    | —    | —    | —     |
| 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 Daily               | —    | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment          | 0.42 | 0.35    | 3.05 | 3.26 | 0.01    | 0.12    | —    | 0.12 | 0.11    | —    | 0.11 | — | 788  | 788  | 0.03    | 0.01    | —    | 790  |
| Dust From Material Movement | —    | —       | —    | —    | —       | —       | 0.29 | 0.29 | —       | 0.11 | 0.11 | — | —    | —    | —       | —       | —    | —    |
| 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 |
| Annual                      | —    | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment          | 0.08 | 0.06    | 0.56 | 0.59 | < 0.005 | 0.02    | —    | 0.02 | 0.02    | —    | 0.02 | — | 130  | 130  | 0.01    | < 0.005 | —    | 131  |
| Dust From Material Movement | —    | —       | —    | —    | —       | —       | 0.05 | 0.05 | —       | 0.02 | 0.02 | — | —    | —    | —       | —       | —    | —    |
| 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, Summer (Max)         | —    | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Daily, Winter (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                     | 0.01 | < 0.005 | 0.20 | 0.05 | < 0.005 | < 0.005 | 2.18 | 2.19 | < 0.005 | 0.22 | 0.23 | — | 159  | 159  | < 0.005 | 0.02    | 0.01 | 166  |
| Average 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 | < 0.005 | < 0.005 | 0.02    | 0.01    | < 0.005 | < 0.005 | 0.25 | 0.25 | < 0.005 | 0.03    | 0.03    | — | 19.0 | 19.0 | < 0.005 | < 0.005 | 0.02    | 19.9 |
| 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 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.05 | 0.05 | < 0.005 | < 0.005 | < 0.005 | — | 3.14 | 3.14 | < 0.005 | < 0.005 | < 0.005 | 3.29 |

### 3.13. Access Roads (2028) - Unmitigated

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

| Location                    | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite                      | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 3.43 | 2.88 | 24.3 | 27.2 | 0.06 | 0.99  | —     | 0.99  | 0.91   | —      | 0.91   | —    | 6,598 | 6,598 | 0.27 | 0.05 | —    | 6,621 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —     | 2.39  | 2.39  | —      | 0.95   | 0.95   | —    | —     | —     | —    | —    | —    | —     |
| 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, Winter (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 3.43 | 2.88 | 24.3 | 27.2 | 0.06 | 0.99  | —     | 0.99  | 0.91   | —      | 0.91   | —    | 6,598 | 6,598 | 0.27 | 0.05 | —    | 6,621 |

|                             |      |         |      |      |         |         |      |      |         |      |      |   |       |       |         |      |      |       |
|-----------------------------|------|---------|------|------|---------|---------|------|------|---------|------|------|---|-------|-------|---------|------|------|-------|
| Dust From Material Movement | —    | —       | —    | —    | —       | —       | 2.39 | 2.39 | —       | 0.95 | 0.95 | — | —     | —     | —       | —    | —    | —     |
| 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 Daily               | —    | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —    | —    | —     |
| Off-Road Equipment          | 2.45 | 2.06    | 17.4 | 19.5 | 0.04    | 0.71    | —    | 0.71 | 0.65    | —    | 0.65 | — | 4,726 | 4,726 | 0.19    | 0.04 | —    | 4,742 |
| Dust From Material Movement | —    | —       | —    | —    | —       | —       | 1.71 | 1.71 | —       | 0.68 | 0.68 | — | —     | —     | —       | —    | —    | —     |
| 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  |
| Annual                      | —    | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —    | —    | —     |
| Off-Road Equipment          | 0.45 | 0.38    | 3.18 | 3.55 | 0.01    | 0.13    | —    | 0.13 | 0.12    | —    | 0.12 | — | 782   | 782   | 0.03    | 0.01 | —    | 785   |
| Dust From Material Movement | —    | —       | —    | —    | —       | —       | 0.31 | 0.31 | —       | 0.12 | 0.12 | — | —     | —     | —       | —    | —    | —     |
| 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, Summer (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                     | 0.01 | < 0.005 | 0.18 | 0.05 | < 0.005 | < 0.005 | 2.18 | 2.19 | < 0.005 | 0.22 | 0.23 | — | 155   | 155   | < 0.005 | 0.02 | 0.32 | 163   |

|                     |         |         |      |      |         |         |      |      |         |      |      |   |      |      |         |         |      |      |
|---------------------|---------|---------|------|------|---------|---------|------|------|---------|------|------|---|------|------|---------|---------|------|------|
| Daily, Winter (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             | 0.01    | < 0.005 | 0.19 | 0.05 | < 0.005 | < 0.005 | 2.18 | 2.19 | < 0.005 | 0.22 | 0.23 | — | 155  | 155  | < 0.005 | 0.02    | 0.01 | 162  |
| Average 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             | < 0.005 | < 0.005 | 0.14 | 0.03 | < 0.005 | < 0.005 | 1.49 | 1.49 | < 0.005 | 0.15 | 0.16 | — | 111  | 111  | < 0.005 | 0.02    | 0.10 | 116  |
| 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             | < 0.005 | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.27 | 0.27 | < 0.005 | 0.03 | 0.03 | — | 18.4 | 18.4 | < 0.005 | < 0.005 | 0.02 | 19.3 |

### 3.15. Access Roads (2029) - Unmitigated

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

| Location                    | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Onsite                      | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Off-Road Equipment          | 3.32 | 2.79 | 22.7 | 26.9 | 0.06 | 0.92  | —     | 0.92  | 0.84   | —      | 0.84   | —    | 6,596 | 6,596 | 0.27 | 0.05 | — | 6,619 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —     | 2.39  | 2.39  | —      | 0.95   | 0.95   | —    | —     | —     | —    | —    | — | —     |

|                             |      |      |      |      |      |      |      |      |      |      |      |      |       |       |      |      |      |       |      |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|-------|------|
| 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  | 0.00 |
| Daily, Winter (Max)         | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | —    | —    | —    | —     | —    |
| Off-Road Equipment          | 3.32 | 2.79 | 22.7 | 26.9 | 0.06 | 0.92 | —    | 0.92 | 0.84 | —    | 0.84 | —    | 6,596 | 6,596 | 0.27 | 0.05 | —    | 6,619 |      |
| Dust From Material Movement | —    | —    | —    | —    | —    | —    | 2.39 | 2.39 | —    | 0.95 | 0.95 | —    | —     | —     | —    | —    | —    | —     |      |
| 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  | 0.00 |
| Average Daily               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | —    | —    | —    | —     | —    |
| Off-Road Equipment          | 2.37 | 1.99 | 16.2 | 19.2 | 0.04 | 0.65 | —    | 0.65 | 0.60 | —    | 0.60 | —    | 4,712 | 4,712 | 0.19 | 0.04 | —    | 4,728 |      |
| Dust From Material Movement | —    | —    | —    | —    | —    | —    | 1.71 | 1.71 | —    | 0.68 | 0.68 | —    | —     | —     | —    | —    | —    | —     |      |
| 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  | 0.00 |
| Annual                      | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | —    | —    | —    | —     | —    |
| Off-Road Equipment          | 0.43 | 0.36 | 2.96 | 3.50 | 0.01 | 0.12 | —    | 0.12 | 0.11 | —    | 0.11 | —    | 780   | 780   | 0.03 | 0.01 | —    | 783   |      |
| Dust From Material Movement | —    | —    | —    | —    | —    | —    | 0.31 | 0.31 | —    | 0.12 | 0.12 | —    | —     | —     | —    | —    | —    | —     |      |
| 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  | 0.00 |

|                     |         |         |      |      |         |         |      |      |         |      |      |   |      |      |         |         |      |      |
|---------------------|---------|---------|------|------|---------|---------|------|------|---------|------|------|---|------|------|---------|---------|------|------|
| Offsite             | —       | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (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             | 0.01    | < 0.005 | 0.18 | 0.05 | < 0.005 | < 0.005 | 2.18 | 2.19 | < 0.005 | 0.22 | 0.23 | — | 151  | 151  | < 0.005 | 0.02    | 0.29 | 158  |
| Daily, Winter (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             | 0.01    | < 0.005 | 0.19 | 0.05 | < 0.005 | < 0.005 | 2.18 | 2.19 | < 0.005 | 0.22 | 0.23 | — | 151  | 151  | < 0.005 | 0.02    | 0.01 | 158  |
| Average 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             | < 0.005 | < 0.005 | 0.13 | 0.03 | < 0.005 | < 0.005 | 1.49 | 1.49 | < 0.005 | 0.15 | 0.16 | — | 108  | 108  | < 0.005 | 0.02    | 0.09 | 113  |
| 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             | < 0.005 | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.27 | 0.27 | < 0.005 | 0.03 | 0.03 | — | 17.8 | 17.8 | < 0.005 | < 0.005 | 0.02 | 18.7 |

### 3.17. BC I (2027) - Unmitigated

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

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

|                     |      |      |      |      |         |         |      |      |         |      |      |   |       |       |         |         |      |       |
|---------------------|------|------|------|------|---------|---------|------|------|---------|------|------|---|-------|-------|---------|---------|------|-------|
| Off-Road            | 1.14 | 0.95 | 7.73 | 9.68 | 0.02    | 0.31    | —    | 0.31 | 0.29    | —    | 0.29 | — | 1,496 | 1,496 | 0.06    | 0.01    | —    | 1,502 |
| 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, Winter (Max) | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 1.14 | 0.95 | 7.73 | 9.68 | 0.02    | 0.31    | —    | 0.31 | 0.29    | —    | 0.29 | — | 1,496 | 1,496 | 0.06    | 0.01    | —    | 1,502 |
| 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 Daily       | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.82 | 0.68 | 5.53 | 6.92 | 0.01    | 0.22    | —    | 0.22 | 0.21    | —    | 0.21 | — | 1,070 | 1,070 | 0.04    | 0.01    | —    | 1,074 |
| 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  |
| Annual              | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.15 | 0.12 | 1.01 | 1.26 | < 0.005 | 0.04    | —    | 0.04 | 0.04    | —    | 0.04 | — | 177   | 177   | 0.01    | < 0.005 | —    | 178   |
| 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, Summer (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              | 0.01 | 0.01 | 0.24 | 0.11 | < 0.005 | < 0.005 | 7.67 | 7.67 | < 0.005 | 0.77 | 0.77 | — | 125   | 125   | < 0.005 | 0.02    | 0.25 | 131   |
| 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, Winter (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              | 0.01    | 0.01    | 0.25 | 0.11 | < 0.005 | < 0.005 | 7.67 | 7.67 | < 0.005 | 0.77 | 0.77 | — | 126  | 126  | < 0.005 | 0.02    | 0.01 | 132  |
| 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 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              | 0.01    | 0.01    | 0.18 | 0.08 | < 0.005 | < 0.005 | 5.23 | 5.24 | < 0.005 | 0.52 | 0.53 | — | 89.7 | 89.7 | < 0.005 | 0.01    | 0.08 | 94.0 |
| 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              | < 0.005 | < 0.005 | 0.03 | 0.01 | < 0.005 | < 0.005 | 0.96 | 0.96 | < 0.005 | 0.10 | 0.10 | — | 14.8 | 14.8 | < 0.005 | < 0.005 | 0.01 | 15.6 |
| 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. BC II (2027) - Unmitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 0.98 | 0.82 | 6.92 | 7.18 | 0.02 | 0.26  | —     | 0.26  | 0.24   | —      | 0.24   | —    | 1,517 | 1,517 | 0.06 | 0.01 | —    | 1,522 |
| 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 Daily       | —       | —       | —    | —       | —       | —       | —     | —     | —       | —    | —    | — | —     | —     | —       | —       | —       | —     |
| Off-Road Equipment  | 0.12    | 0.10    | 0.83 | 0.86    | < 0.005 | 0.03    | —     | 0.03  | 0.03    | —    | 0.03 | — | 181   | 181   | 0.01    | < 0.005 | —       | 182   |
| 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  |
| Annual              | —       | —       | —    | —       | —       | —       | —     | —     | —       | —    | —    | — | —     | —     | —       | —       | —       | —     |
| Off-Road Equipment  | 0.02    | 0.02    | 0.15 | 0.16    | < 0.005 | 0.01    | —     | 0.01  | 0.01    | —    | 0.01 | — | 30.0  | 30.0  | < 0.005 | < 0.005 | —       | 30.1  |
| 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, Summer (Max) | —       | —       | —    | —       | —       | —       | —     | —     | —       | —    | —    | — | —     | —     | —       | —       | —       | —     |
| Daily, Winter (Max) | —       | —       | —    | —       | —       | —       | —     | —     | —       | —    | —    | — | —     | —     | —       | —       | —       | —     |
| Worker              | 4.11    | 3.80    | 2.76 | 30.8    | 0.00    | 0.00    | 1,088 | 1,088 | 0.00    | 109  | 109  | — | 6,194 | 6,194 | 0.26    | 0.31    | 0.58    | 6,294 |
| Vendor              | 0.01    | 0.01    | 0.25 | 0.11    | < 0.005 | < 0.005 | 7.67  | 7.67  | < 0.005 | 0.77 | 0.77 | — | 126   | 126   | < 0.005 | 0.02    | 0.01    | 132   |
| 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 Daily       | —       | —       | —    | —       | —       | —       | —     | —     | —       | —    | —    | — | —     | —     | —       | —       | —       | —     |
| Worker              | 0.50    | 0.48    | 0.30 | 3.73    | 0.00    | 0.00    | 124   | 124   | 0.00    | 12.4 | 12.4 | — | 766   | 766   | 0.03    | 0.04    | 1.15    | 779   |
| Vendor              | < 0.005 | < 0.005 | 0.03 | 0.01    | < 0.005 | < 0.005 | 0.87  | 0.87  | < 0.005 | 0.09 | 0.09 | — | 15.0  | 15.0  | < 0.005 | < 0.005 | 0.01    | 15.7  |
| 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              | 0.09    | 0.09    | 0.05 | 0.68    | 0.00    | 0.00    | 22.6  | 22.6  | 0.00    | 2.27 | 2.27 | — | 127   | 127   | < 0.005 | 0.01    | 0.19    | 129   |
| Vendor              | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.16  | 0.16  | < 0.005 | 0.02 | 0.02 | — | 2.48  | 2.48  | < 0.005 | < 0.005 | < 0.005 | 2.60  |
| 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. BC II (2028) - Unmitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R    | CO2e  |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|---------|------|-------|
| Onsite              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.96 | 0.80 | 6.64 | 7.17 | 0.02    | 0.24  | —     | 0.24  | 0.22   | —      | 0.22   | —    | 1,517 | 1,517 | 0.06 | 0.01    | —    | 1,523 |
| 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, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.96 | 0.80 | 6.64 | 7.17 | 0.02    | 0.24  | —     | 0.24  | 0.22   | —      | 0.22   | —    | 1,517 | 1,517 | 0.06 | 0.01    | —    | 1,523 |
| 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 Daily       | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.69 | 0.57 | 4.75 | 5.13 | 0.01    | 0.17  | —     | 0.17  | 0.16   | —      | 0.16   | —    | 1,087 | 1,087 | 0.04 | 0.01    | —    | 1,091 |
| 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  |
| Annual              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.13 | 0.10 | 0.87 | 0.94 | < 0.005 | 0.03  | —     | 0.03  | 0.03   | —      | 0.03   | —    | 180   | 180   | 0.01 | < 0.005 | —    | 181   |

|                     |         |         |      |      |         |         |       |       |         |      |      |      |       |       |         |         |      |       |      |
|---------------------|---------|---------|------|------|---------|---------|-------|-------|---------|------|------|------|-------|-------|---------|---------|------|-------|------|
| 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  | 0.00 |
| Offsite             | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | —    | —     | —     | —       | —       | —    | —     | —    |
| Daily, Summer (Max) | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | —    | —     | —     | —       | —       | —    | —     | —    |
| Worker              | 4.40    | 4.12    | 1.96 | 35.4 | 0.00    | 0.00    | 1,088 | 1,088 | 0.00    | 109  | 109  | —    | 6,841 | 6,841 | 0.19    | 0.28    | 20.1 | 6,950 |      |
| Vendor              | 0.01    | 0.01    | 0.23 | 0.11 | < 0.005 | < 0.005 | 7.67  | 7.67  | < 0.005 | 0.77 | 0.77 | —    | 122   | 122   | < 0.005 | 0.02    | 0.23 | 128   |      |
| 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, Winter (Max) | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | —    | —     | —     | —       | —       | —    | —     |      |
| Worker              | 3.93    | 3.62    | 2.50 | 28.5 | 0.00    | 0.00    | 1,088 | 1,088 | 0.00    | 109  | 109  | —    | 6,076 | 6,076 | 0.24    | 0.31    | 0.52 | 6,175 |      |
| Vendor              | 0.01    | 0.01    | 0.25 | 0.11 | < 0.005 | < 0.005 | 7.67  | 7.67  | < 0.005 | 0.77 | 0.77 | —    | 122   | 122   | < 0.005 | 0.02    | 0.01 | 128   |      |
| 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 Daily       | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | —    | —     | —     | —       | —       | —    | —     |      |
| Worker              | 2.85    | 2.63    | 1.59 | 20.8 | 0.00    | 0.00    | 744   | 744   | 0.00    | 74.6 | 74.6 | —    | 4,507 | 4,507 | 0.15    | 0.20    | 6.22 | 4,577 |      |
| Vendor              | 0.01    | 0.01    | 0.17 | 0.08 | < 0.005 | < 0.005 | 5.24  | 5.24  | < 0.005 | 0.53 | 0.53 | —    | 87.6  | 87.6  | < 0.005 | 0.01    | 0.07 | 91.8  |      |
| 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              | 0.52    | 0.48    | 0.29 | 3.80 | 0.00    | 0.00    | 136   | 136   | 0.00    | 13.6 | 13.6 | —    | 746   | 746   | 0.03    | 0.03    | 1.03 | 758   |      |
| Vendor              | < 0.005 | < 0.005 | 0.03 | 0.01 | < 0.005 | < 0.005 | 0.96  | 0.96  | < 0.005 | 0.10 | 0.10 | —    | 14.5  | 14.5  | < 0.005 | < 0.005 | 0.01 | 15.2  |      |
| 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  |      |

### 3.23. BC II (2029) - Unmitigated

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

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

|                     |      |      |      |      |         |      |      |      |      |      |      |   |       |       |      |         |      |       |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|------|---------|------|-------|
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.94 | 0.78 | 6.42 | 7.13 | 0.02    | 0.23 | —    | 0.23 | 0.21 | —    | 0.21 | — | 1,517 | 1,517 | 0.06 | 0.01    | —    | 1,522 |
| 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, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.94 | 0.78 | 6.42 | 7.13 | 0.02    | 0.23 | —    | 0.23 | 0.21 | —    | 0.21 | — | 1,517 | 1,517 | 0.06 | 0.01    | —    | 1,522 |
| 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 Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.67 | 0.56 | 4.59 | 5.10 | 0.01    | 0.16 | —    | 0.16 | 0.15 | —    | 0.15 | — | 1,084 | 1,084 | 0.04 | 0.01    | —    | 1,087 |
| 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  |
| Annual              | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.12 | 0.10 | 0.84 | 0.93 | < 0.005 | 0.03 | —    | 0.03 | 0.03 | —    | 0.03 | — | 179   | 179   | 0.01 | < 0.005 | —    | 180   |
| 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, Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |

|                     |         |         |      |      |         |         |       |       |         |      |      |   |       |       |         |         |      |       |
|---------------------|---------|---------|------|------|---------|---------|-------|-------|---------|------|------|---|-------|-------|---------|---------|------|-------|
| Worker              | 4.14    | 3.85    | 1.73 | 33.0 | 0.00    | 0.00    | 1,088 | 1,088 | 0.00    | 109  | 109  | — | 6,714 | 6,714 | 0.16    | 0.28    | 17.9 | 6,820 |
| Vendor              | 0.01    | 0.01    | 0.23 | 0.11 | < 0.005 | < 0.005 | 7.67  | 7.67  | < 0.005 | 0.77 | 0.77 | — | 119   | 119   | < 0.005 | 0.02    | 0.21 | 125   |
| 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, Winter (Max) | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 3.71    | 3.40    | 2.27 | 26.7 | 0.00    | 0.00    | 1,088 | 1,088 | 0.00    | 109  | 109  | — | 5,965 | 5,965 | 0.24    | 0.31    | 0.47 | 6,064 |
| Vendor              | 0.01    | 0.01    | 0.24 | 0.11 | < 0.005 | < 0.005 | 7.67  | 7.67  | < 0.005 | 0.77 | 0.77 | — | 119   | 119   | < 0.005 | 0.02    | 0.01 | 125   |
| 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 Daily       | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 2.67    | 2.45    | 1.42 | 19.3 | 0.00    | 0.00    | 742   | 742   | 0.00    | 74.4 | 74.4 | — | 4,412 | 4,412 | 0.13    | 0.20    | 5.53 | 4,481 |
| Vendor              | 0.01    | 0.01    | 0.17 | 0.08 | < 0.005 | < 0.005 | 5.23  | 5.23  | < 0.005 | 0.52 | 0.53 | — | 85.1  | 85.1  | < 0.005 | 0.01    | 0.06 | 89.2  |
| 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  |
| Annual              | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.49    | 0.45    | 0.26 | 3.52 | 0.00    | 0.00    | 135   | 135   | 0.00    | 13.6 | 13.6 | — | 731   | 731   | 0.02    | 0.03    | 0.92 | 742   |
| Vendor              | < 0.005 | < 0.005 | 0.03 | 0.01 | < 0.005 | < 0.005 | 0.95  | 0.95  | < 0.005 | 0.10 | 0.10 | — | 14.1  | 14.1  | < 0.005 | < 0.005 | 0.01 | 14.8  |
| 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. BC III (2027) - Unmitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O     | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|------|------|---------|---|------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Off-Road Equipment  | 0.33 | 0.27 | 2.32 | 3.71 | 0.01 | 0.07  | —     | 0.07  | 0.06   | —      | 0.06   | —    | 510   | 510  | 0.02 | < 0.005 | — | 512  |

|                     |      |      |      |      |         |         |      |      |         |      |      |      |      |      |         |         |      |      |      |
|---------------------|------|------|------|------|---------|---------|------|------|---------|------|------|------|------|------|---------|---------|------|------|------|
| 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 | 0.00 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —    | —    | —    |
| Off-Road Equipment  | 0.33 | 0.27 | 2.32 | 3.71 | 0.01    | 0.07    | —    | 0.07 | 0.06    | —    | 0.06 | —    | 510  | 510  | 0.02    | < 0.005 | —    | 512  |      |
| 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 | 0.00 |
| Average Daily       | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —    | —    | —    |
| Off-Road Equipment  | 0.23 | 0.20 | 1.66 | 2.65 | < 0.005 | 0.05    | —    | 0.05 | 0.04    | —    | 0.04 | —    | 364  | 364  | 0.01    | < 0.005 | —    | 366  |      |
| 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 | 0.00 |
| Annual              | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —    | —    | —    |
| Off-Road Equipment  | 0.04 | 0.04 | 0.30 | 0.48 | < 0.005 | 0.01    | —    | 0.01 | 0.01    | —    | 0.01 | —    | 60.3 | 60.3 | < 0.005 | < 0.005 | —    | 60.5 |      |
| 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 | 0.00 |
| Offsite             | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —    | —    | —    |
| Daily, Summer (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 | 0.00 |
| Vendor              | 0.01 | 0.01 | 0.24 | 0.11 | < 0.005 | < 0.005 | 7.67 | 7.67 | < 0.005 | 0.77 | 0.77 | —    | 125  | 125  | < 0.005 | 0.02    | 0.25 | 131  |      |
| 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 | 0.00 |
| Daily, Winter (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        | 0.01    | 0.01    | 0.25 | 0.11 | < 0.005 | < 0.005 | 7.67 | 7.67 | < 0.005 | 0.77 | 0.77 | — | 126  | 126  | < 0.005 | 0.02    | 0.01 | 132  |
| 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 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        | 0.01    | 0.01    | 0.18 | 0.08 | < 0.005 | < 0.005 | 5.23 | 5.23 | < 0.005 | 0.52 | 0.53 | — | 89.6 | 89.6 | < 0.005 | 0.01    | 0.08 | 93.9 |
| 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        | < 0.005 | < 0.005 | 0.03 | 0.01 | < 0.005 | < 0.005 | 0.95 | 0.95 | < 0.005 | 0.10 | 0.10 | — | 14.8 | 14.8 | < 0.005 | < 0.005 | 0.01 | 15.5 |
| 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. BC III (2028) - Unmitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O     | R    | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|------|------|---------|------|------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Off-Road Equipment  | 0.31 | 0.26 | 2.24 | 3.70 | 0.01 | 0.06  | —     | 0.06  | 0.05   | —      | 0.05   | —    | 510   | 510  | 0.02 | < 0.005 | —    | 512  |
| 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 Daily       | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |



|                     |         |         |      |         |         |         |      |         |         |      |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|------|---------|---------|---------|------|---------|---------|------|---------|---|------|------|---------|---------|---------|------|
| Off-Road            | 0.06    | 0.05    | 0.40 | 0.66    | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | — | 90.8 | 90.8 | < 0.005 | < 0.005 | —       | 91.1 |
| 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 |
| Annual              | —       | —       | —    | —       | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —       | —    |
| Off-Road Equipment  | 0.01    | 0.01    | 0.07 | 0.12    | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 15.0 | 15.0 | < 0.005 | < 0.005 | —       | 15.1 |
| 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, Summer (Max) | —       | —       | —    | —       | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Winter (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              | 0.01    | 0.01    | 0.25 | 0.11    | < 0.005 | < 0.005 | 7.67 | 7.67    | < 0.005 | 0.77 | 0.77    | — | 122  | 122  | < 0.005 | 0.02    | 0.01    | 128  |
| 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 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              | < 0.005 | < 0.005 | 0.04 | 0.02    | < 0.005 | < 0.005 | 1.30 | 1.30    | < 0.005 | 0.13 | 0.13    | — | 21.8 | 21.8 | < 0.005 | < 0.005 | 0.02    | 22.8 |
| 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              | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.24 | 0.24    | < 0.005 | 0.02 | 0.02    | — | 3.60 | 3.60 | < 0.005 | < 0.005 | < 0.005 | 3.78 |
| 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 |

### 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.

## 4.2. Energy

### 4.2.1. Electricity 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 Use                       | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R | CO2e |
|--------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|---------|---------|---|------|
| Daily, Summer (Max)            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Other Non-Asphalt Surfaces     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00  | 0.00 | 0.00    | 0.00    | — | 0.00 |
| General Light Industry         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 11.7  | 11.7 | < 0.005 | < 0.005 | — | 11.9 |
| Refrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 686   | 686  | 0.11    | 0.01    | — | 693  |
| Total                          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 698   | 698  | 0.11    | 0.01    | — | 705  |
| Daily, Winter (Max)            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Other Non-Asphalt Surfaces     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00  | 0.00 | 0.00    | 0.00    | — | 0.00 |
| General Light Industry         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 11.7  | 11.7 | < 0.005 | < 0.005 | — | 11.9 |

|                                |   |   |   |   |   |   |   |   |   |   |   |   |      |      |         |         |   |      |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|------|------|---------|---------|---|------|
| Refrigerated                   | — | — | — | — | — | — | — | — | — | — | — | — | 686  | 686  | 0.11    | 0.01    | — | 693  |
| Total                          | — | — | — | — | — | — | — | — | — | — | — | — | 698  | 698  | 0.11    | 0.01    | — | 705  |
| Annual                         | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —       | —       | — | —    |
| Other Non-Asphalt Surfaces     | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 |
| General Light Industry         | — | — | — | — | — | — | — | — | — | — | — | — | 1.94 | 1.94 | < 0.005 | < 0.005 | — | 1.96 |
| Refrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | — | 114  | 114  | 0.02    | < 0.005 | — | 115  |
| Total                          | — | — | — | — | — | — | — | — | — | — | — | — | 116  | 116  | 0.02    | < 0.005 | — | 117  |

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 Use                       | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|--------------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily, Summer (Max)            | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Other Non-Asphalt Surfaces     | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| General Light Industry         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Refrigerated Warehouse-No Rail | 0.00 | 0.00 | 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, Winter (Max)            | —    | —    | —    | —    | —    | —    | — | —    | —    | — | —    | — | —    | —    | —    | —    | — | —    |
| Other Non-Asphalt Surfaces     | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| General Light Industry         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Refrigerated Warehouse-No Rail | 0.00 | 0.00 | 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                         | —    | —    | —    | —    | —    | —    | — | —    | —    | — | —    | — | —    | —    | —    | —    | — | —    |
| Other Non-Asphalt Surfaces     | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| General Light Industry         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Refrigerated Warehouse-No Rail | 0.00 | 0.00 | 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

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

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

|                        |      |      |      |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|------------------------|------|------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Daily, Summer (Max)    | —    | —    | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | 6.65 | 6.65 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | 5.44 | 5.44 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Landscape Equipment    | 0.40 | 0.37 | 0.02 | 2.25 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 9.26 | 9.26 | < 0.005 | < 0.005 | — | 9.29 |
| Total                  | 12.5 | 12.5 | 0.02 | 2.25 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 9.26 | 9.26 | < 0.005 | < 0.005 | — | 9.29 |
| Daily, Winter (Max)    | —    | —    | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | 6.65 | 6.65 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | 5.44 | 5.44 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Total                  | 12.1 | 12.1 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Annual                 | —    | —    | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | 1.21 | 1.21 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | 0.99 | 0.99 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |

|           |      |      |         |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|-----------|------|------|---------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Landscape | 0.04 | 0.03 | < 0.005 | 0.20 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.76 | 0.76 | < 0.005 | < 0.005 | — | 0.76 |
| Total     | 2.24 | 2.24 | < 0.005 | 0.20 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.76 | 0.76 | < 0.005 | < 0.005 | — | 0.76 |

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

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

| Land Use                       | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|--------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily, Summer (Max)            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Other Non-Asphalt Surfaces     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 476   | 476  | 0.08 | 0.01 | — | 481  |
| General Light Industry         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Refrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 19.3 | 22.2  | 41.6 | 1.99 | 0.05 | — | 105  |
| Total                          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 19.3 | 498   | 518  | 2.06 | 0.06 | — | 586  |
| Daily, Winter (Max)            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Other Non-Asphalt Surfaces     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 476   | 476  | 0.08 | 0.01 | — | 481  |
| General Light Industry         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |

|                                |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |         |   |      |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---------|---|------|
| Refrigerated                   | — | — | — | — | — | — | — | — | — | — | — | 19.3 | 22.2 | 41.6 | 1.99 | 0.05    | — | 105  |
| Total                          | — | — | — | — | — | — | — | — | — | — | — | 19.3 | 498  | 518  | 2.06 | 0.06    | — | 586  |
| Annual                         | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —       | — | —    |
| Other Non-Asphalt Surfaces     | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 78.8 | 78.8 | 0.01 | < 0.005 | — | 79.6 |
| General Light Industry         | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | — | 0.00 |
| Refrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | 3.20 | 3.68 | 6.88 | 0.33 | 0.01    | — | 17.4 |
| Total                          | — | — | — | — | — | — | — | — | — | — | — | 3.20 | 82.5 | 85.7 | 0.34 | 0.01    | — | 97.0 |

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

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

| Land Use                   | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|----------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily, Summer (Max)        | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Other Non-Asphalt Surfaces | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| General Light Industry     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 1.18 | 0.00  | 1.18 | 0.12 | 0.00 | — | 4.14 |

|                                |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Refrigerated Warehouse-No      | — | — | — | — | — | — | — | — | — | — | — | 25.3 | 0.00 | 25.3 | 2.53 | 0.00 | — | 88.6 |
| Total                          | — | — | — | — | — | — | — | — | — | — | — | 26.5 | 0.00 | 26.5 | 2.65 | 0.00 | — | 92.8 |
| Daily, Winter (Max)            | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Other Non-Asphalt Surfaces     | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| General Light Industry         | — | — | — | — | — | — | — | — | — | — | — | 1.18 | 0.00 | 1.18 | 0.12 | 0.00 | — | 4.14 |
| Refrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | 25.3 | 0.00 | 25.3 | 2.53 | 0.00 | — | 88.6 |
| Total                          | — | — | — | — | — | — | — | — | — | — | — | 26.5 | 0.00 | 26.5 | 2.65 | 0.00 | — | 92.8 |
| Annual                         | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Other Non-Asphalt Surfaces     | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| General Light Industry         | — | — | — | — | — | — | — | — | — | — | — | 0.20 | 0.00 | 0.20 | 0.02 | 0.00 | — | 0.69 |
| Refrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | 4.19 | 0.00 | 4.19 | 0.42 | 0.00 | — | 14.7 |
| Total                          | — | — | — | — | — | — | — | — | — | — | — | 4.39 | 0.00 | 4.39 | 0.44 | 0.00 | — | 15.4 |

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 Use                       | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R     | CO2e  |
|--------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|-------|-------|
| Daily, Summer (Max)            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —     | —     |
| General Light Industry         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.46  | 0.46  |
| Refrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 1,333 | 1,333 |
| Total                          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 1,333 | 1,333 |
| Daily, Winter (Max)            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —     | —     |
| General Light Industry         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.46  | 0.46  |
| Refrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 1,333 | 1,333 |
| Total                          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 1,333 | 1,333 |
| Annual                         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —     | —     |
| General Light Industry         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.08  | 0.08  |

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|
| Refrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 221 | 221 |
| Total                          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 221 | 221 |

### 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)

| Equipment Type      | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (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)

| Equipment Type | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|----------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
|----------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (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 ent Type     | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (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)

| Vegetation          | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed             | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

|          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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  |
|--------------|-----------------------|------------|------------|---------------|---------------------|--------------------|
| Grading      | Grading               | 10/1/2026  | 10/31/2026 | 5.00          | 22.0                | Grading            |
| PV Array     | Grading               | 11/1/2026  | 12/31/2029 | 5.00          | 826                 | PV Array           |
| Access Roads | Grading               | 11/1/2027  | 12/31/2029 | 5.00          | 566                 | Access Road        |
| BC I         | Building Construction | 1/1/2027   | 12/31/2027 | 5.00          | 261                 | Substation/Gen-Tie |
| BC II        | Building Construction | 11/1/2027  | 12/31/2029 | 5.00          | 566                 | BESS               |
| BC III       | Building Construction | 1/1/2027   | 3/31/2028  | 5.00          | 326                 | Switchyard         |

### 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 |
|------------|----------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Grading    | Graders                    | Diesel    | Average     | 1.00           | 8.00          | 148        | 0.41        |
| Grading    | Excavators                 | Diesel    | Average     | 1.00           | 8.00          | 36.0       | 0.38        |
| Grading    | Tractors/Loaders/Back hoes | Diesel    | Average     | 2.00           | 8.00          | 84.0       | 0.37        |
| Grading    | Rubber Tired Dozers        | Diesel    | Average     | 1.00           | 8.00          | 367        | 0.40        |
| Grading    | Bore/Drill Rigs            | Diesel    | Average     | 2.00           | 8.00          | 83.0       | 0.50        |
| Grading    | Air Compressors            | Diesel    | Average     | 1.00           | 8.00          | 37.0       | 0.48        |
| Grading    | Crawler Tractors           | Diesel    | Average     | 1.00           | 8.00          | 87.0       | 0.43        |
| Grading    | Dumpers/Tenders            | Diesel    | Average     | 1.00           | 8.00          | 16.0       | 0.38        |
| Grading    | Generator Sets             | Diesel    | Average     | 1.00           | 8.00          | 14.0       | 0.74        |

|              |                              |        |         |      |      |      |      |
|--------------|------------------------------|--------|---------|------|------|------|------|
| Grading      | Trenchers                    | Diesel | Average | 1.00 | 8.00 | 40.0 | 0.50 |
| Grading      | Other Construction Equipment | Diesel | Average | 1.00 | 8.00 | 82.0 | 0.42 |
| PV Array     | Forklifts                    | Diesel | Average | 8.00 | 8.00 | 82.0 | 0.20 |
| PV Array     | Generator Sets               | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| PV Array     | Cranes                       | Diesel | Average | 1.00 | 7.00 | 367  | 0.29 |
| PV Array     | Tractors/Loaders/Back hoes   | Diesel | Average | 2.00 | 7.00 | 84.0 | 0.37 |
| PV Array     | Bore/Drill Rigs              | Diesel | Average | 3.00 | 8.00 | 83.0 | 0.50 |
| PV Array     | Cement and Mortar Mixers     | Diesel | Average | 1.00 | 8.00 | 10.0 | 0.56 |
| PV Array     | Air Compressors              | Diesel | Average | 2.00 | 8.00 | 37.0 | 0.48 |
| PV Array     | Dumpers/Tenders              | Diesel | Average | 4.00 | 8.00 | 16.0 | 0.38 |
| PV Array     | Off-Highway Tractors         | Diesel | Average | 4.00 | 8.00 | 38.0 | 0.44 |
| PV Array     | Rough Terrain Forklifts      | Diesel | Average | 2.00 | 8.00 | 96.0 | 0.40 |
| PV Array     | Trenchers                    | Diesel | Average | 1.00 | 8.00 | 40.0 | 0.50 |
| PV Array     | Other Construction Equipment | Diesel | Average | 3.00 | 8.00 | 82.0 | 0.42 |
| Access Roads | Excavators                   | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Access Roads | Graders                      | Diesel | Average | 1.00 | 8.00 | 148  | 0.41 |
| Access Roads | Rubber Tired Dozers          | Diesel | Average | 1.00 | 8.00 | 367  | 0.40 |
| Access Roads | Scrapers                     | Diesel | Average | 2.00 | 8.00 | 423  | 0.48 |
| Access Roads | Tractors/Loaders/Back hoes   | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| BC I         | Forklifts                    | Diesel | Average | 1.00 | 6.00 | 82.0 | 0.20 |
| BC I         | Generator Sets               | Diesel | Average | 1.00 | 24.0 | 14.0 | 0.74 |
| BC I         | Cranes                       | Diesel | Average | 0.00 | 6.00 | 367  | 0.29 |
| BC I         | Tractors/Loaders/Back hoes   | Diesel | Average | 1.00 | 6.00 | 84.0 | 0.37 |
| BC I         | Plate Compactors             | Diesel | Average | 0.00 | 6.00 | 8.00 | 0.43 |
| BC I         | Air Compressors              | Diesel | Average | 1.00 | 8.00 | 37.0 | 0.48 |

|        |                            |        |         |      |      |      |      |
|--------|----------------------------|--------|---------|------|------|------|------|
| BC I   | Excavators                 | Diesel | Average | 1.00 | 6.00 | 36.0 | 0.38 |
| BC I   | Graders                    | Diesel | Average | 1.00 | 8.00 | 148  | 0.41 |
| BC I   | Rollers                    | Diesel | Average | 0.00 | 6.00 | 36.0 | 0.38 |
| BC II  | Forklifts                  | Diesel | Average | 1.00 | 4.00 | 82.0 | 0.20 |
| BC II  | Generator Sets             | Diesel | Average | 1.00 | 24.0 | 14.0 | 0.74 |
| BC II  | Cranes                     | Diesel | Average | 1.00 | 6.00 | 367  | 0.29 |
| BC II  | Tractors/Loaders/Back hoes | Diesel | Average | 1.00 | 6.00 | 84.0 | 0.37 |
| BC II  | Plate Compactors           | Diesel | Average | 0.00 | 4.00 | 8.00 | 0.43 |
| BC II  | Air Compressors            | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |
| BC II  | Excavators                 | Diesel | Average | 0.00 | 2.00 | 36.0 | 0.38 |
| BC II  | Rollers                    | Diesel | Average | 1.00 | 2.00 | 36.0 | 0.38 |
| BC III | Forklifts                  | Diesel | Average | 1.00 | 6.00 | 82.0 | 0.20 |
| BC III | Tractors/Loaders/Back hoes | Diesel | Average | 1.00 | 6.00 | 84.0 | 0.37 |
| BC III | Air Compressors            | Diesel | Average | 1.00 | 8.00 | 37.0 | 0.48 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name | Trip Type    | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|------------|--------------|-----------------------|----------------|---------------|
| Grading    | —            | —                     | —              | —             |
| Grading    | Worker       | 32.5                  | 7.70           | LDA,LDT1,LDT2 |
| Grading    | Vendor       | —                     | 4.00           | HHDT,MHDT     |
| Grading    | Hauling      | 0.00                  | 20.0           | HHDT          |
| Grading    | Onsite truck | —                     | —              | HHDT          |
| PV Array   | —            | —                     | —              | —             |
| PV Array   | Worker       | 0.00                  | 7.70           | LDA,LDT1,LDT2 |
| PV Array   | Vendor       | —                     | 4.00           | HHDT,MHDT     |



|              |              |       |      |               |
|--------------|--------------|-------|------|---------------|
| PV Array     | Hauling      | 0.00  | 20.0 | HHDT          |
| PV Array     | Onsite truck | —     | —    | HHDT          |
| BC I         | —            | —     | —    | —             |
| BC I         | Worker       | 0.00  | 7.70 | LDA,LDT1,LDT2 |
| BC I         | Vendor       | 8.49  | 4.00 | HHDT          |
| BC I         | Hauling      | 0.00  | 20.0 | HHDT          |
| BC I         | Onsite truck | —     | —    | HHDT          |
| BC II        | —            | —     | —    | —             |
| BC II        | Worker       | 1,200 | 7.70 | LDA,LDT1,LDT2 |
| BC II        | Vendor       | 8.49  | 4.00 | HHDT          |
| BC II        | Hauling      | 0.00  | 20.0 | HHDT          |
| BC II        | Onsite truck | —     | —    | HHDT          |
| Access Roads | —            | —     | —    | —             |
| Access Roads | Worker       | 0.00  | 7.70 | LDA,LDT1,LDT2 |
| Access Roads | Vendor       | —     | 4.00 | HHDT,MHDT     |
| Access Roads | Hauling      | 2.37  | 20.0 | HHDT          |
| Access Roads | Onsite truck | —     | —    | HHDT          |
| BC III       | —            | —     | —    | —             |
| BC III       | Worker       | 0.00  | 7.70 | LDA,LDT1,LDT2 |
| BC III       | Vendor       | 8.49  | 4.00 | HHDT          |
| BC III       | Hauling      | 0.00  | 20.0 | HHDT          |
| BC III       | Onsite truck | —     | —    | HHDT          |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

| Control Strategies Applied               | PM10 Reduction | PM2.5 Reduction |
|--|----------------|-----------------|
| Apply dust suppressants to unpaved roads | 84%            | 84%             |

|   |     |     |
|---|-----|-----|
| Limit vehicle speeds on unpaved roads to 25 mph | 44% | 44% |
|---|-----|-----|

## 5.5. Architectural Coatings

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

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name   | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (sq. ft.) | Acres Paved (acres) |
|--------------|------------------------|------------------------|----------------------|-------------------------------|---------------------|
| Grading      | —                      | —                      | 33.0                 | 0.00                          | —                   |
| PV Array     | —                      | —                      | 0.00                 | 0.00                          | —                   |
| Access Roads | 10,750                 | —                      | 0.00                 | 0.00                          | —                   |

### 5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|----------------------------|---------------------|----------------|-----------------|
| Water Exposed Area         | 3                   | 74%            | 74%             |

## 5.7. Construction Paving

| Land Use                       | Area Paved (acres) | % Asphalt |
|--------------------------------|--------------------|-----------|
| Other Non-Asphalt Surfaces     | 1,618              | 0%        |
| General Light Industry         | 0.00               | 0%        |
| Refrigerated Warehouse-No Rail | 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 |
| 2028 | 0.00 | 204 | 0.03 | < 0.005 |
| 2029 | 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 | VM/Weekday | VM/Saturday | VM/Sunday | VM/Year |
|---------------------|---------------|----------------|--------------|------------|------------|-------------|-----------|---------|
| Total all Land Uses | 20.4          | 20.4           | 20.4         | 7,440      | 408        | 408         | 408       | 148,800 |

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

### 5.10.2. Architectural Coatings

| Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|--|--|--|--|-----------------------------|
| 0  | 0.00                                     | 77,655                                       | 25,885                                       | 4,228,805                   |

### 5.10.3. Landscape Equipment

| Season      | Unit   | Value |
|-------------|--------|-------|
| 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) |
|--------------------------------|----------------------|-----|--------|--------|-----------------------|
| Other Non-Asphalt Surfaces     | 0.00                 | 204 | 0.0330 | 0.0040 | 0.00                  |
| General Light Industry         | 21,000               | 204 | 0.0330 | 0.0040 | 0.00                  |
| Refrigerated Warehouse-No Rail | 1,228,007            | 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) |
|--------------------------------|-------------------------|--------------------------|
| Other Non-Asphalt Surfaces     | 0.00                    | 351,972,000              |
| General Light Industry         | 0.00                    | 0.00                     |
| Refrigerated Warehouse-No Rail | 10,091,604              | 0.00                     |

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

| Land Use                       | Waste (ton/year) | Cogeneration (kWh/year) |
|--------------------------------|------------------|-------------------------|
| Other Non-Asphalt Surfaces     | 0.00             | —                       |
| General Light Industry         | 2.19             | —                       |
| Refrigerated Warehouse-No Rail | 47.0             | —                       |

## 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 |
|---------------|----------------|-------------|-----|---------------|----------------------|-------------------|----------------|
|---------------|----------------|-------------|-----|---------------|----------------------|-------------------|----------------|

|                                |                                     |        |       |      |      |      |      |
|--------------------------------|-------------------------------------|--------|-------|------|------|------|------|
| General Light Industry         | Other commercial A/C and heat pumps | R-410A | 2,088 | 0.30 | 4.00 | 4.00 | 18.0 |
| Refrigerated Warehouse-No Rail | Cold storage                        | R-404A | 3,922 | 7.50 | 7.50 | 7.50 | 25.0 |

## 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 |
|----------------|-----------|-------------|----------------|---------------|------------|-------------|
|----------------|-----------|-------------|----------------|---------------|------------|-------------|

## 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. Biomass Cover Type

#### 5.18.1.1. Unmitigated

| 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) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

## 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 | 27.2                        | annual days of extreme heat                |
| Extreme Precipitation        | 1.05                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 18.4                        | 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 | 3              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | N/A            | N/A               | N/A                     | N/A                 |
| Flooding                     | 0              | 0                 | 0                       | N/A                 |
| Drought                      | 0              | 0                 | 0                       | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 0              | 0                 | 0                       | N/A                 |

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 | 3              | 1                 | 1                       | 3                   |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | N/A            | N/A               | N/A                     | N/A                 |
| Flooding                     | 1              | 1                 | 1                       | 2                   |
| Drought                      | 1              | 1                 | 1                       | 2                   |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 1              | 1                 | 1                       | 2                   |

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                        | 57.1                            |
| AQ-PM                           | 24.5                            |
| AQ-DPM                          | 1.88                            |
| Drinking Water                  | 68.2                            |
| Lead Risk Housing               | 25.2                            |
| Pesticides                      | 84.5                            |
| Toxic Releases                  | 26.5                            |
| Traffic                         | 7.25                            |
| Effect Indicators               | —                               |
| CleanUp Sites                   | 90.3                            |
| Groundwater                     | 92.6                            |
| Haz Waste Facilities/Generators | 94.7                            |
| Impaired Water Bodies           | 43.8                            |
| Solid Waste                     | 59.2                            |
| Sensitive Population            | —                               |
| Asthma                          | 68.5                            |
| Cardio-vascular                 | 87.0                            |
| Low Birth Weights               | 28.4                            |



|                                 |      |
|---------------------------------|------|
| Socioeconomic Factor Indicators | —    |
| Education                       | 94.0 |
| Housing                         | 2.99 |
| Linguistic                      | 64.1 |
| Poverty                         | 79.3 |
| Unemployment                    | 88.7 |

## 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          | 20.72372642                     |
| Employed               | 8.135506224                     |
| Median HI              | 41.6527653                      |
| Education              | —                               |
| Bachelor's or higher   | 16.52765302                     |
| High school enrollment | 100                             |
| Preschool enrollment   | 74.27178237                     |
| Transportation         | —                               |
| Auto Access            | 89.83703323                     |
| Active commuting       | 36.50712178                     |
| Social                 | —                               |
| 2-parent households    | 46.93956114                     |
| Voting                 | 2.86154241                      |
| Neighborhood           | —                               |
| Alcohol availability   | 97.0101373                      |
| Park access            | 6.852303349                     |
| Retail density         | 0.141152316                     |

|  |             |
|--|-------------|
| Supermarket access                           | 2.399589375 |
| Tree canopy                                  | 8.084178109 |
| Housing                                      | —           |
| Homeownership                                | 38.58591043 |
| Housing habitability                         | 79.30193764 |
| Low-inc homeowner severe housing cost burden | 96.59951238 |
| Low-inc renter severe housing cost burden    | 96.17605543 |
| Uncrowded housing                            | 24.18837418 |
| Health Outcomes                              | —           |
| Insured adults                               | 14.70550494 |
| Arthritis                                    | 0.0         |
| Asthma ER Admissions                         | 41.4        |
| High Blood Pressure                          | 0.0         |
| Cancer (excluding skin)                      | 0.0         |
| Asthma                                       | 0.0         |
| Coronary Heart Disease                       | 0.0         |
| Chronic Obstructive Pulmonary Disease        | 0.0         |
| Diagnosed Diabetes                           | 0.0         |
| Life Expectancy at Birth                     | 3.7         |
| Cognitively Disabled                         | 5.8         |
| Physically Disabled                          | 5.2         |
| Heart Attack ER Admissions                   | 1.7         |
| Mental Health Not Good                       | 0.0         |
| Chronic Kidney Disease                       | 0.0         |
| Obesity                                      | 0.0         |
| Pedestrian Injuries                          | 71.0        |
| Physical Health Not Good                     | 0.0         |
| Stroke                                       | 0.0         |

|                                       |      |
|---------------------------------------|------|
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 0.0  |
| Current Smoker                        | 0.0  |
| No Leisure Time for Physical Activity | 0.0  |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 0.5  |
| SLR Inundation Area                   | 0.0  |
| Children                              | 45.9 |
| Elderly                               | 42.0 |
| English Speaking                      | 11.9 |
| Foreign-born                          | 69.9 |
| Outdoor Workers                       | 1.8  |
| Climate Change Adaptive Capacity      | —    |
| Impervious Surface Cover              | 87.6 |
| Traffic Density                       | 7.6  |
| Traffic Access                        | 0.0  |
| Other Indices                         | —    |
| Hardship                              | 75.8 |
| Other Decision Support                | —    |
| 2016 Voting                           | 27.9 |

### 7.3. Overall Health & Equity Scores

| Metric  | Result for Project Census Tract |
|---|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 75.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 24.0                            |
| 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                                  | Solar PV Facility, Gen-tie line, and access roads modeled as non-asphalt surfaces. Substation and switchyard modeled as General Light Industry. BESS modeled as refrigerated warehouse.  |
| Construction: Construction Phases         | see CalEEMod assumptions and calculations sheet.   |
| Construction: Off-Road Equipment          | Based on prior experience with similar projects with similar scale. See CalEEMod assumptions worksheet for detail.   |
| Operations: Energy Use                    | Does not account for onsite electricity generation. No natural gas consumption.  |
| Operations: Fleet Mix                     | Assumes MDV for O&M and major maintenance trips. See assumptions spreadsheet.  |
| Construction: Trips and VMT               | per client provided data-max 600 worker trips (1200 one-way). Vendor and haul trips modeled exclusively as HHDT.   |
| Construction: Dust From Material Movement | Site already level; no grading required  |
| Operations: Water and Waste Water         | Outdoor water use for non-asphalt surfaces used as proxy to estimate construction water consumption for dust suppression. Value based on Project WSA (Rincon Consultants 2024) and converted from acre-feet. Indoor water use for warehouse used as proxy for overall operational water consumption. |
| Construction: On-Road Fugitive Dust       | Percentage of travel on paved roads assumes one mile of internal gravel road travel and is based on CalEEMod default trip lengths for each trip type. Mean vehicle speed would not exceed 15 mph per project applicant.  |
| Operations: Road Dust                     | Assumes same rate of paved road travel as Construction worker trips.   |

# Cornucopia Hybrid Decommissioning 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
3. Construction Emissions Details
  - 3.1. Site Preparation (2050) - Unmitigated
4. Operations Emissions Details
  - 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

## 5. Activity Data

### 5.1. Construction Schedule

### 5.2. Off-Road Equipment

#### 5.2.1. Unmitigated

### 5.3. Construction Vehicles

#### 5.3.1. Unmitigated

### 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

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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                | Cornucopia Hybrid Decommissioning      |
| Construction Start Date     | 1/1/2049                               |
| Lead Agency                 | —                                      |
| Land Use Scale              | Project/site                           |
| Analysis Level for Defaults | County                                 |
| Windspeed (m/s)             | 3.50                                   |
| Precipitation (days)        | 16.8                                   |
| Location                    | 36.04068843056436, -120.18318897510218 |
| County                      | Fresno                                 |
| City                        | Unincorporated                         |
| Air District                | San Joaquin Valley APCD                |
| Air Basin                   | San Joaquin Valley                     |
| TAZ                         | 2530                                   |
| EDFZ                        | 5                                      |
| Electric Utility            | Pacific Gas & Electric Company         |
| Gas Utility                 | Southern California Gas                |
| App Version                 | 2022.1.1.22                            |

## 1.2. Land Use Types

| Land Use Subtype           | Size  | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|----------------------------|-------|------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Other Non-Asphalt Surfaces | 1,618 | Acre | 1,618       | 0.00                  | 0.00                   | —                              | —          | —           |



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

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

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

| Un/Mit.             | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 4.07 | 3.42 | 34.3 | 62.8 | 0.13 | 0.47  | 7.34  | 7.80  | 0.44   | 2.21   | 2.64   | —    | 14,094 | 14,094 | 0.48 | 0.53 | 0.44 | 14,265 |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 4.06 | 3.41 | 34.5 | 62.5 | 0.13 | 0.47  | 7.34  | 7.80  | 0.44   | 2.21   | 2.64   | —    | 14,050 | 14,050 | 0.48 | 0.53 | 0.01 | 14,220 |
| Average Daily (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 2.90 | 2.43 | 24.5 | 44.5 | 0.09 | 0.33  | 5.22  | 5.55  | 0.31   | 1.57   | 1.88   | —    | 10,016 | 10,016 | 0.34 | 0.38 | 0.14 | 10,138 |
| Annual (Max)        | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 0.53 | 0.44 | 4.47 | 8.13 | 0.02 | 0.06  | 0.95  | 1.01  | 0.06   | 0.29   | 0.34   | —    | 1,658  | 1,658  | 0.06 | 0.06 | 0.02 | 1,678  |

### 2.2. Construction Emissions by Year, Unmitigated

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

| Year                 | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|----------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily - Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                      |      |      |      |      |      |      |      |      |      |      |      |   |        |        |      |      |      |        |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| 2050                 | 4.07 | 3.42 | 34.3 | 62.8 | 0.13 | 0.47 | 7.34 | 7.80 | 0.44 | 2.21 | 2.64 | — | 14,094 | 14,094 | 0.48 | 0.53 | 0.44 | 14,265 |
| Daily - Winter (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| 2050                 | 4.06 | 3.41 | 34.5 | 62.5 | 0.13 | 0.47 | 7.34 | 7.80 | 0.44 | 2.21 | 2.64 | — | 14,050 | 14,050 | 0.48 | 0.53 | 0.01 | 14,220 |
| Average Daily        | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| 2050                 | 2.90 | 2.43 | 24.5 | 44.5 | 0.09 | 0.33 | 5.22 | 5.55 | 0.31 | 1.57 | 1.88 | — | 10,016 | 10,016 | 0.34 | 0.38 | 0.14 | 10,138 |
| Annual               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| 2050                 | 0.53 | 0.44 | 4.47 | 8.13 | 0.02 | 0.06 | 0.95 | 1.01 | 0.06 | 0.29 | 0.34 | — | 1,658  | 1,658  | 0.06 | 0.06 | 0.02 | 1,678  |

### 3. Construction Emissions Details

#### 3.1. Site Preparation (2050) - Unmitigated

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

| Location                    | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite                      | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Daily, Summer (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment          | 3.84 | 3.23 | 30.8 | 60.5 | 0.10 | 0.42  | —     | 0.42  | 0.39   | —      | 0.39   | —    | 10,855 | 10,855 | 0.44 | 0.09 | —    | 10,893 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —     | 2.56  | 2.56  | —      | 1.31   | 1.31   | —    | —      | —      | —    | —    | —    | —      |
| Demolition                  | —    | —    | —    | —    | —    | —     | 3.24  | 3.24  | —      | 0.49   | 0.49   | —    | —      | —      | —    | —    | —    | —      |
| 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, Winter (Max)         | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment          | 3.84 | 3.23 | 30.8 | 60.5 | 0.10 | 0.42 | —    | 0.42 | 0.39 | —    | 0.39 | — | 10,855 | 10,855 | 0.44 | 0.09 | —    | 10,893 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —    | 2.56 | 2.56 | —    | 1.31 | 1.31 | — | —      | —      | —    | —    | —    | —      |
| Demolition                  | —    | —    | —    | —    | —    | —    | 3.24 | 3.24 | —    | 0.49 | 0.49 | — | —      | —      | —    | —    | —    | —      |
| 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 Daily               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment          | 2.74 | 2.30 | 22.0 | 43.1 | 0.07 | 0.30 | —    | 0.30 | 0.27 | —    | 0.27 | — | 7,733  | 7,733  | 0.31 | 0.06 | —    | 7,759  |
| Dust From Material Movement | —    | —    | —    | —    | —    | —    | 1.82 | 1.82 | —    | 0.94 | 0.94 | — | —      | —      | —    | —    | —    | —      |
| Demolition                  | —    | —    | —    | —    | —    | —    | 2.31 | 2.31 | —    | 0.35 | 0.35 | — | —      | —      | —    | —    | —    | —      |
| 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   |
| Annual                      | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment          | 0.50 | 0.42 | 4.01 | 7.87 | 0.01 | 0.05 | —    | 0.05 | 0.05 | —    | 0.05 | — | 1,280  | 1,280  | 0.05 | 0.01 | —    | 1,285  |
| Dust From Material Movement | —    | —    | —    | —    | —    | —    | 0.33 | 0.33 | —    | 0.17 | 0.17 | — | —      | —      | —    | —    | —    | —      |
| Demolition                  | —    | —    | —    | —    | —    | —    | 0.42 | 0.42 | —    | 0.06 | 0.06 | — | —      | —      | —    | —    | —    | —      |

|                     |      |      |      |      |         |      |      |      |      |      |      |      |       |       |         |         |         |       |      |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|------|-------|-------|---------|---------|---------|-------|------|
| 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  | 0.00 |
| Offsite             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —     | —     | —       | —       | —       | —     | —    |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —     | —     | —       | —       | —       | —     | —    |
| Worker              | 0.12 | 0.12 | 0.06 | 1.33 | 0.00    | 0.00 | 0.49 | 0.49 | 0.00 | 0.11 | 0.11 | —    | 428   | 428   | 0.01    | < 0.005 | 0.04    | 429   |      |
| 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             | 0.11 | 0.07 | 3.36 | 0.92 | 0.03    | 0.05 | 1.05 | 1.10 | 0.05 | 0.29 | 0.34 | —    | 2,811 | 2,811 | 0.03    | 0.44    | 0.40    | 2,943 |      |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —     | —     | —       | —       | —       | —     |      |
| Worker              | 0.12 | 0.12 | 0.07 | 1.03 | 0.00    | 0.00 | 0.49 | 0.49 | 0.00 | 0.11 | 0.11 | —    | 380   | 380   | 0.01    | 0.01    | < 0.005 | 382   |      |
| 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             | 0.10 | 0.07 | 3.60 | 0.94 | 0.03    | 0.05 | 1.05 | 1.10 | 0.05 | 0.29 | 0.34 | —    | 2,814 | 2,814 | 0.03    | 0.44    | 0.01    | 2,946 |      |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —     | —     | —       | —       | —       | —     |      |
| Worker              | 0.08 | 0.08 | 0.05 | 0.76 | 0.00    | 0.00 | 0.35 | 0.35 | 0.00 | 0.08 | 0.08 | —    | 281   | 281   | < 0.005 | < 0.005 | 0.01    | 282   |      |
| 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             | 0.08 | 0.05 | 2.50 | 0.66 | 0.02    | 0.04 | 0.74 | 0.78 | 0.04 | 0.20 | 0.24 | —    | 2,003 | 2,003 | 0.02    | 0.31    | 0.12    | 2,097 |      |
| Annual              | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —     | —     | —       | —       | —       | —     |      |
| Worker              | 0.01 | 0.01 | 0.01 | 0.14 | 0.00    | 0.00 | 0.06 | 0.06 | 0.00 | 0.01 | 0.01 | —    | 46.4  | 46.4  | < 0.005 | < 0.005 | < 0.005 | 46.7  |      |
| 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             | 0.01 | 0.01 | 0.46 | 0.12 | < 0.005 | 0.01 | 0.14 | 0.14 | 0.01 | 0.04 | 0.04 | —    | 332   | 332   | < 0.005 | 0.05    | 0.02    | 347   |      |

## 4. Operations Emissions Details

### 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)

| Vegetation          | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

| Species             | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| —                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| —                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Remove   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 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 |
|------------------|------------------|------------|------------|---------------|---------------------|-------------------|
| Site Preparation | Site Preparation | 1/1/2050   | 12/31/2050 | 5.00          | 260                 | —                 |

### 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 |
|------------------|------------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Site Preparation | Forklifts                    | Diesel    | Average     | 6.00           | 8.00          | 82.0       | 0.20        |
| Site Preparation | Cranes                       | Diesel    | Average     | 1.00           | 8.00          | 367        | 0.29        |
| Site Preparation | Tractors/Loaders/Backhoes    | Diesel    | Average     | 6.00           | 8.00          | 84.0       | 0.37        |
| Site Preparation | Excavators                   | Diesel    | Average     | 3.00           | 8.00          | 36.0       | 0.38        |
| Site Preparation | Rubber Tired Dozers          | Diesel    | Average     | 1.00           | 8.00          | 367        | 0.40        |
| Site Preparation | Trenchers                    | Diesel    | Average     | 6.00           | 8.00          | 40.0       | 0.50        |
| Site Preparation | Other Construction Equipment | Diesel    | Average     | 13.0           | 8.00          | 82.0       | 0.42        |

### 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       | 90.0                  | 7.70           | LDA,LDT1,LDT2 |
| Site Preparation | Vendor       | —                     | 4.00           | HHDT,MHDT     |
| Site Preparation | Hauling      | 56.7                  | 20.0           | HHDT          |
| Site Preparation | Onsite truck | —                     | —              | 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 Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|------------|--|--|--|--|-----------------------------|
|            |  |  |  |  |                             |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name       | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (Ton of Debris) | Acres Paved (acres) |
|------------------|------------------------|------------------------|----------------------|-------------------------------------|---------------------|
| Site Preparation | —                      | —                      | 130                  | 58,983                              | —                   |

### 5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|----------------------------|---------------------|----------------|-----------------|
| Water Exposed Area         | 2                   | 61%            | 61%             |
| Water Demolished Area      | 2                   | 36%            | 36%             |



## 5.7. Construction Paving

| Land Use                   | Area Paved (acres) | % Asphalt |
|----------------------------|--------------------|-----------|
| Other Non-Asphalt Surfaces | 1,618              | 0%        |

## 5.8. Construction Electricity Consumption and Emissions Factors

### kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4  | N2O     |
|------|--------------|-----|------|---------|
| 2050 | 0.00         | 204 | 0.03 | < 0.005 |

## 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. Biomass Cover Type

#### 5.18.1.1. Unmitigated

| 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) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

## 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 | 27.1                        | annual days of extreme heat                |
| Extreme Precipitation        | 1.05                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 13.9                        | 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  $\frac{3}{4}$  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 | 3              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | N/A            | N/A               | N/A                     | N/A                 |
| Flooding                     | 0              | 0                 | 0                       | N/A                 |
| Drought                      | 0              | 0                 | 0                       | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |

|                         |   |   |   |     |
|-------------------------|---|---|---|-----|
| Air Quality Degradation | 0 | 0 | 0 | N/A |
|-------------------------|---|---|---|-----|

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 | 3              | 1                 | 1                       | 3                   |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | N/A            | N/A               | N/A                     | N/A                 |
| Flooding                     | 1              | 1                 | 1                       | 2                   |
| Drought                      | 1              | 1                 | 1                       | 2                   |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 1              | 1                 | 1                       | 2                   |

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                        | 70.7 |
| AQ-PM                           | 48.8 |
| AQ-DPM                          | 26.4 |
| Drinking Water                  | 59.9 |
| Lead Risk Housing               | 49.8 |
| Pesticides                      | 96.2 |
| Toxic Releases                  | 45.3 |
| Traffic                         | 18.3 |
| Effect Indicators               | —    |
| CleanUp Sites                   | 0.00 |
| Groundwater                     | 51.0 |
| Haz Waste Facilities/Generators | 35.6 |
| Impaired Water Bodies           | 23.9 |
| Solid Waste                     | 75.7 |
| Sensitive Population            | —    |
| Asthma                          | 57.8 |
| Cardio-vascular                 | 93.4 |
| Low Birth Weights               | 7.66 |
| Socioeconomic Factor Indicators | —    |
| Education                       | 99.8 |
| Housing                         | 21.1 |
| Linguistic                      | 97.3 |
| Poverty                         | 99.0 |
| Unemployment                    | 90.6 |

## 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                                | 3.490311818                     |
| Employed                                     | 22.67419479                     |
| Median HI                                    | 30.43757218                     |
| Education                                    | —                               |
| Bachelor's or higher                         | 2.912870525                     |
| High school enrollment                       | 100                             |
| Preschool enrollment                         | 47.26036186                     |
| Transportation                               | —                               |
| Auto Access                                  | 15.01347363                     |
| Active commuting                             | 6.493006544                     |
| Social                                       | —                               |
| 2-parent households                          | 62.69729244                     |
| Voting                                       | 2.373925318                     |
| Neighborhood                                 | —                               |
| Alcohol availability                         | 61.81188246                     |
| Park access                                  | 30.59155653                     |
| Retail density                               | 0.487617092                     |
| Supermarket access                           | 26.24149878                     |
| Tree canopy                                  | 5.530604389                     |
| Housing                                      | —                               |
| Homeownership                                | 44.65546003                     |
| Housing habitability                         | 50.54536122                     |
| Low-inc homeowner severe housing cost burden | 62.17117926                     |
| Low-inc renter severe housing cost burden    | 96.58668035                     |
| Uncrowded housing                            | 12.53689208                     |

|                                       |             |
|---------------------------------------|-------------|
| Health Outcomes                       | —           |
| Insured adults                        | 4.234569485 |
| Arthritis                             | 0.0         |
| Asthma ER Admissions                  | 30.2        |
| High Blood Pressure                   | 0.0         |
| Cancer (excluding skin)               | 0.0         |
| Asthma                                | 0.0         |
| Coronary Heart Disease                | 0.0         |
| Chronic Obstructive Pulmonary Disease | 0.0         |
| Diagnosed Diabetes                    | 0.0         |
| Life Expectancy at Birth              | 4.9         |
| Cognitively Disabled                  | 46.5        |
| Physically Disabled                   | 33.4        |
| Heart Attack ER Admissions            | 7.9         |
| Mental Health Not Good                | 0.0         |
| Chronic Kidney Disease                | 0.0         |
| Obesity                               | 0.0         |
| Pedestrian Injuries                   | 19.6        |
| Physical Health Not Good              | 0.0         |
| Stroke                                | 0.0         |
| Health Risk Behaviors                 | —           |
| Binge Drinking                        | 0.0         |
| Current Smoker                        | 0.0         |
| No Leisure Time for Physical Activity | 0.0         |
| Climate Change Exposures              | —           |
| Wildfire Risk                         | 0.0         |
| SLR Inundation Area                   | 0.0         |

|                                  |      |
|----------------------------------|------|
| Children                         | 2.7  |
| Elderly                          | 42.6 |
| English Speaking                 | 3.0  |
| Foreign-born                     | 95.4 |
| Outdoor Workers                  | 0.8  |
| Climate Change Adaptive Capacity | —    |
| Impervious Surface Cover         | 71.3 |
| Traffic Density                  | 18.2 |
| Traffic Access                   | 0.0  |
| Other Indices                    | —    |
| Hardship                         | 91.7 |
| Other Decision Support           | —    |
| 2016 Voting                      | 17.8 |

### 7.3. Overall Health & Equity Scores

| Metric  | Result for Project Census Tract |
|---|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 75.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 9.00                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | No                              |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | Yes                             |
| 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  |
|---|--|
| Construction: Construction Phases         | Single Decommissioning Phase   |
| Construction: Dust From Material Movement | per reclamation plan. Sum of all material under Hauling table.                       |
| Construction: Off-Road Equipment          | per reclamation plan. Vibratory Extractors modeled as "Other Construction Equipment" |
| Construction: Demolition                  | Per reclamation plan.  |
| Construction: Trips and VMT               | per reclamation plan.  |



# Cornucopia Hybrid Vegetation Sequestration - Project Custom Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

### 2. Emissions Summary

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 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

### 5. Activity Data

#### 5.18. Vegetation

##### 5.18.1. Land Use Change

###### 5.18.1.1. Unmitigated

##### 5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value  |
|-----------------------------|--|
| Project Name                | Cornucopia Hybrid Vegetation Sequestration - Project |
| Operational Year            | 2028   |
| Lead Agency                 | —  |
| Land Use Scale              | Project/site   |
| Analysis Level for Defaults | County   |
| Windspeed (m/s)             | 3.50   |
| Precipitation (days)        | 16.8   |
| Location                    | 36.04973174671923, -120.19815765059295               |
| County                      | Fresno   |
| City                        | Unincorporated                                       |
| Air District                | San Joaquin Valley APCD                              |
| Air Basin                   | San Joaquin Valley                                   |
| TAZ                         | 2506   |
| EDFZ                        | 5  |
| Electric Utility            | Pacific Gas & Electric Company                       |
| Gas Utility                 | Southern California Gas                              |
| App Version                 | 2022.1.1.26  |

## 1.2. Land Use Types

| Land Use Subtype           | Size  | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description                               |
|----------------------------|-------|------|-------------|-----------------------|------------------------|--------------------------------|------------|---|
| Other Non-Asphalt Surfaces | 1,618 | Acre | 1,618       | 0.00                  | 0.00                   | 0.00                           | —          | PV Array, gen-tie line, and access roads. |

|                                |      |          |      |        |      |      |   |                           |
|--------------------------------|------|----------|------|--------|------|------|---|---------------------------|
| General Light Industry         | 1.77 | 1000sqft | 2.21 | 1,770  | 0.00 | 0.00 | — | Substation and switchyard |
| Refrigerated Warehouse-No Rail | 50.0 | 1000sqft | 12.0 | 50,000 | 0.00 | 0.00 | — | BESS                      |

## 2. Emissions Summary

### 2.5. Operations Emissions by Sector, Unmitigated

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

| Sector              | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2   | CO2T    | CH4  | N2O  | R    | CO2e    |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|---------|---------|------|------|------|---------|
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —       | —       | —    | —    | —    | —       |
| Mobile              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    |
| Area                | 0.00 | 0.00 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —       | —       | —    | —    | —    | —       |
| 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    |
| Vegetation          | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | -14,433 | -14,433 | —    | —    | —    | -14,433 |
| 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 | -14,433 | -14,433 | 0.00 | 0.00 | 0.00 | -14,433 |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —       | —       | —    | —    | —    | —       |
| Mobile              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    |
| Area                | 0.00 | 0.00 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —       | —       | —    | —    | —    | —       |
| 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    |
| Vegetation          | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | -14,433 | -14,433 | —    | —    | —    | -14,433 |

|               |      |      |      |      |      |      |      |      |      |      |      |      |         |         |         |      |      |      |         |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|---------|---------|---------|------|------|------|---------|
| 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    | -14,433 | -14,433 | 0.00 | 0.00 | 0.00 | -14,433 |
| Average Daily | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —       | —       | —       | —    | —    | —    | —       |
| Mobile        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    |
| Area          | 0.00 | 0.00 | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —       | —       | —       | —    | —    | —    | —       |
| 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 | —    | 0.00    |
| Water         | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 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 | —    | 0.00    |
| Vegetation    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | -14,433 | -14,433 | —       | —    | —    | —    | -14,433 |
| 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 | -14,433 | -14,433 | 0.00    | 0.00 | 0.00 | 0.00 | -14,433 |
| Annual        | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —       | —       | —       | —    | —    | —    | —       |
| Mobile        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    |
| Area          | 0.00 | 0.00 | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —       | —       | —       | —    | —    | —    | —       |
| 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 | —    | 0.00    |
| Water         | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 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 | —    | 0.00    |
| Vegetation    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | -2,390  | -2,390  | —       | —    | —    | —    | -2,390  |
| 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 | -2,390  | -2,390  | 0.00    | 0.00 | 0.00 | 0.00 | -2,390  |

## 4. Operations Emissions Details

### 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)

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

|                     |   |   |   |   |   |   |   |   |   |   |   |   |         |         |   |   |   |         |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|---|---|---|---------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | —       | —       | — | — | — | —       |
| Grazing             | — | — | — | — | — | — | — | — | — | — | — | — | -10,199 | -10,199 | — | — | — | -10,199 |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | -10,199 | -10,199 | — | — | — | -10,199 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | —       | —       | — | — | — | —       |
| Grazing             | — | — | — | — | — | — | — | — | — | — | — | — | -10,199 | -10,199 | — | — | — | -10,199 |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | -10,199 | -10,199 | — | — | — | -10,199 |
| Annual              | — | — | — | — | — | — | — | — | — | — | — | — | —       | —       | — | — | — | —       |
| Grazing             | — | — | — | — | — | — | — | — | — | — | — | — | -1,689  | -1,689  | — | — | — | -1,689  |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | -1,689  | -1,689  | — | — | — | -1,689  |

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

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

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4 | N2O | R | CO2e |        |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|--------|--------|-----|-----|---|------|--------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —      | —      | —   | —   | — | —    | —      |
| Grassland           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | -4,234 | -4,234 | —   | —   | — | —    | -4,234 |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | -4,234 | -4,234 | —   | —   | — | —    | -4,234 |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —      | —      | —   | —   | — | —    | —      |
| Grassland           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | -4,234 | -4,234 | —   | —   | — | —    | -4,234 |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | -4,234 | -4,234 | —   | —   | — | —    | -4,234 |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —      | —      | —   | —   | — | —    | —      |
| Grassland           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | -701   | -701   | —   | —   | — | —    | -701   |

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |      |      |   |   |   |      |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|---|---|---|------|
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | -701 | -701 | — | — | — | -701 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|---|---|---|------|

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

| Species             | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| —                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| —                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 5. Activity Data

### 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 |
|--------------------------|----------------------|---------------|-------------|
| Grazing                  | Aridisols            | 0.00          | 1,593       |

#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
| Grassland          | 0.00          | 1,593       |

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

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



## 8. User Changes to Default Data

| Screen                                    | Justification   |
|---|---|
| Land Use                                  | Solar PV Facility, Gen-tie line, and access roads modeled as non-asphalt surfaces. Substation and switchyard modeled as General Light Industry. BESS modeled as refrigerated warehouse.                                 |
| Construction: Construction Phases         | see CalEEMod assumptions and calculations sheet.  |
| Construction: Off-Road Equipment          | Based on prior experience with similar projects with similar scale. See CalEEMod assumptions worksheet for detail.  |
| Operations: Energy Use                    | Vegetation change only  |
| Operations: Fleet Mix                     | Assumes MDV for O&M and major maintenance trips. See assumptions spreadsheet.   |
| Construction: Trips and VMT               | per client provided data-max 600 worker trips (1200 one-way). Vendor and haul trips modeled exclusively as HHDT.  |
| Construction: Dust From Material Movement | Site already level; no grading required   |
| Operations: Water and Waste Water         | vegetation change only  |
| Construction: On-Road Fugitive Dust       | Percentage of travel on paved roads assumes one mile of internal gravel road travel and is based on CalEEMod default trip lengths for each trip type. Mean vehicle speed would not exceed 15 mph per project applicant. |
| Operations: Road Dust                     | Assumes same rate of paved road travel as Construction worker trips.  |
| Operations: Consumer Products             | vegetation change only  |
| Operations: Architectural Coatings        | Vegetation Change Only  |
| Operations: Landscape Equipment           | Vegetation change only  |
| Operations: Solid Waste                   | vegetation change only  |
| Operations: Refrigerants                  | vegetation change only  |

# Cornucopia Hybrid Vegetation Sequestration -Existing Custom Report

## Table of Contents

### 1. Basic Project Information

#### 1.1. Basic Project Information

#### 1.2. Land Use Types

### 2. Emissions Summary

#### 2.5. Operations Emissions by Sector, Unmitigated

### 4. Operations Emissions Details

#### 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

### 5. Activity Data

#### 5.18. Vegetation

##### 5.18.1. Land Use Change

###### 5.18.1.1. Unmitigated

##### 5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value  |
|-----------------------------|--|
| Project Name                | Cornucopia Hybrid Vegetation Sequestration -Existing |
| Operational Year            | 2028   |
| Lead Agency                 | —  |
| Land Use Scale              | Project/site   |
| Analysis Level for Defaults | County   |
| Windspeed (m/s)             | 3.50   |
| Precipitation (days)        | 16.8   |
| Location                    | 36.04973174671923, -120.19815765059295               |
| County                      | Fresno   |
| City                        | Unincorporated                                       |
| Air District                | San Joaquin Valley APCD                              |
| Air Basin                   | San Joaquin Valley                                   |
| TAZ                         | 2506   |
| EDFZ                        | 5  |
| Electric Utility            | Pacific Gas & Electric Company                       |
| Gas Utility                 | Southern California Gas                              |
| App Version                 | 2022.1.1.26  |

## 1.2. Land Use Types

| Land Use Subtype           | Size  | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description                               |
|----------------------------|-------|------|-------------|-----------------------|------------------------|--------------------------------|------------|---|
| Other Non-Asphalt Surfaces | 1,618 | Acre | 1,618       | 0.00                  | 0.00                   | 0.00                           | —          | PV Array, gen-tie line, and access roads. |

|                                |      |          |      |        |      |   |   |                           |
|--------------------------------|------|----------|------|--------|------|---|---|---------------------------|
| General Light Industry         | 1.77 | 1000sqft | 2.21 | 1,770  | 0.00 | — | — | Substation and switchyard |
| Refrigerated Warehouse-No Rail | 50.0 | 1000sqft | 12.0 | 50,000 | 0.00 | — | — | BESS                      |

## 2. Emissions Summary

### 2.5. Operations Emissions by Sector, Unmitigated

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

| Sector              | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Mobile              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| Area                | 0.00 | 0.00 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| 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  |
| Vegetation          | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | 7,938 | 7,938 | —    | —    | —    | 7,938 |
| 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 | 7,938 | 7,938 | 0.00 | 0.00 | 0.00 | 7,938 |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Mobile              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| Area                | 0.00 | 0.00 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| 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  |
| Vegetation          | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | 7,938 | 7,938 | —    | —    | —    | 7,938 |

|               |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |      |      |       |       |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|------|------|-------|-------|
| 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  | 7,938 | 7,938 | 0.00 | 0.00 | 0.00  | 7,938 |
| Average Daily | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | —     | —    | —    | —     | —     |
| Mobile        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 | 0.00  | 0.00  |
| Area          | 0.00 | 0.00 | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | —     | —    | —    | —     | —     |
| 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 | —     | 0.00  |
| Water         | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 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 | —     | 0.00  |
| Vegetation    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 7,938 | 7,938 | —     | —    | —    | —     | 7,938 |
| 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 | 7,938 | 7,938 | 0.00  | 0.00 | 0.00 | 7,938 |       |
| Annual        | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | —     | —    | —    | —     | —     |
| Mobile        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00  | 0.00  | 0.00  | 0.00 | 0.00 | 0.00  | 0.00  |
| Area          | 0.00 | 0.00 | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | —     | —    | —    | —     | —     |
| 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 | —     | 0.00  |
| Water         | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 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 | —     | 0.00  |
| Vegetation    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 1,314 | 1,314 | —     | —    | —    | —     | 1,314 |
| 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 | 1,314 | 1,314 | 0.00  | 0.00 | 0.00 | 0.00  | 1,314 |

## 4. Operations Emissions Details

### 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)

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

|                     |   |   |   |   |   |   |   |   |   |   |   |   |       |       |   |   |   |       |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|---|---|---|-------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | —     | —     | — | — | — | —     |
| Cropland            | — | — | — | — | — | — | — | — | — | — | — | — | 7,840 | 7,840 | — | — | — | 7,840 |
| Grazing             | — | — | — | — | — | — | — | — | — | — | — | — | 69.2  | 69.2  | — | — | — | 69.2  |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | 7,909 | 7,909 | — | — | — | 7,909 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | —     | —     | — | — | — | —     |
| Cropland            | — | — | — | — | — | — | — | — | — | — | — | — | 7,840 | 7,840 | — | — | — | 7,840 |
| Grazing             | — | — | — | — | — | — | — | — | — | — | — | — | 69.2  | 69.2  | — | — | — | 69.2  |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | 7,909 | 7,909 | — | — | — | 7,909 |
| Annual              | — | — | — | — | — | — | — | — | — | — | — | — | —     | —     | — | — | — | —     |
| Cropland            | — | — | — | — | — | — | — | — | — | — | — | — | 1,298 | 1,298 | — | — | — | 1,298 |
| Grazing             | — | — | — | — | — | — | — | — | — | — | — | — | 11.5  | 11.5  | — | — | — | 11.5  |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | 1,309 | 1,309 | — | — | — | 1,309 |

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

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

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |      |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    | —    |
| Grassland           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 28.7  | 28.7 | —   | —   | — | —    | 28.7 |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 28.7  | 28.7 | —   | —   | — | —    | 28.7 |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    | —    |

|               |   |   |   |   |   |   |   |   |   |   |   |   |      |      |   |   |   |      |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|------|------|---|---|---|------|
| Grassla       | — | — | — | — | — | — | — | — | — | — | — | — | 28.7 | 28.7 | — | — | — | 28.7 |
| Total         | — | — | — | — | — | — | — | — | — | — | — | — | 28.7 | 28.7 | — | — | — | 28.7 |
| Annual        | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    | — | — | — | —    |
| Grassla<br>nd | — | — | — | — | — | — | — | — | — | — | — | — | 4.76 | 4.76 | — | — | — | 4.76 |
| Total         | — | — | — | — | — | — | — | — | — | — | — | — | 4.76 | 4.76 | — | — | — | 4.76 |

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

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

| Species                   | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| —                         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily,<br>Winter<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |



|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Remove d     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest ered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove d     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —            | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 5. Activity Data

### 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 |
|--------------------------|----------------------|---------------|-------------|
| Cropland                 | Aridisols            | 1,583         | 0.00        |
| Grazing                  | Aridisols            | 10.8          | 0.00        |

##### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

|           |      |      |
|-----------|------|------|
| Grassland | 10.8 | 0.00 |
|-----------|------|------|

## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

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

## 8. User Changes to Default Data

| Screen                                    | Justification   |
|---|---|
| Land Use                                  | Solar PV Facility, Gen-tie line, and access roads modeled as non-asphalt surfaces. Substation and switchyard modeled as General Light Industry. BESS modeled as refrigerated warehouse.                                 |
| Construction: Construction Phases         | see CalEEMod assumptions and calculations sheet.  |
| Construction: Off-Road Equipment          | Based on prior experience with similar projects with similar scale. See CalEEMod assumptions worksheet for detail.  |
| Operations: Energy Use                    | Vegetation change only  |
| Operations: Fleet Mix                     | Assumes MDV for O&M and major maintenance trips. See assumptions spreadsheet.   |
| Construction: Trips and VMT               | per client provided data-max 600 worker trips (1200 one-way). Vendor and haul trips modeled exclusively as HHDT.  |
| Construction: Dust From Material Movement | Site already level; no grading required   |
| Operations: Water and Waste Water         | vegetation change only  |
| Construction: On-Road Fugitive Dust       | Percentage of travel on paved roads assumes one mile of internal gravel road travel and is based on CalEEMod default trip lengths for each trip type. Mean vehicle speed would not exceed 15 mph per project applicant. |
| Operations: Road Dust                     | Assumes same rate of paved road travel as Construction worker trips.  |
| Operations: Consumer Products             | vegetation change only  |
| Operations: Architectural Coatings        | Vegetation Change Only  |
| Operations: Landscape Equipment           | Vegetation change only  |
| Operations: Solid Waste                   | vegetation change only  |
| Operations: Refrigerants                  | vegetation change only  |