



**Pacific Gas and  
Electric Company™**

**VIA ELECTRONIC MAIL**

January 12, 2022

**Mr. Trevor Pratt**  
**California Public Utilities Commission**  
c/o Tom Engels  
Horizon Water and Environment  
266 Grand Avenue, Suite 210  
Oakland, CA 94610

**Re: Estrella Substation and Paso Robles Area Reinforcement Project (A.17-01-023) –  
Pacific Gas and Electric Company Comments on Recirculated Draft Environmental  
Impact Report**

Dear Mr. Pratt:

Enclosed are Pacific Gas and Electric Company's ("PG&E") comments on the Recirculated Draft Environmental Impact Report ("RDEIR") that the California Public Utilities Commission ("CPUC") Infrastructure Permitting and CEQA Section ("Energy Division") released on November 18, 2021 regarding the Estrella Substation and Paso Robles Area Reinforcement Project ("Proposed Project" or "Project"). PG&E reserves the right to supplement its comments on the RDEIR at a later date.

PG&E appreciates the time and effort that the Energy Division and its consultants spent on preparing the RDEIR. PG&E's comments are intended to ensure that the final environmental impact report for the Project ("FEIR") will be accurate, complete, and consistent with the California Environmental Quality Act ("CEQA").

## **I. INTRODUCTION**

PG&E and NextEra Energy Transmission West, LLC [now known as Horizon West Transmission, LLC ("HWT")] (collectively referred to as "Applicants"), jointly filed on

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January 25, 2017 an application requesting Permits to Construct (“PTCs”) the Proposed Project, with a targeted in-service date of May 2019. The Proposed Project is a reliability-based upgrade to the Los Padres Area transmission system and the Paso Robles Distribution Planning Area that was selected by the California Independent System Operator through its regional transmission planning process. The Proposed Project would interconnect a new 230 kilovolt (“kV”) source into the Paso Robles area by constructing a new 230/70 kV substation, as described in the Applicants’ application for PTCs.

PG&E appreciates the opportunity to provide comments on the RDEIR. PG&E’s comments consist of this cover letter, Attachment 1 (Revised Air Quality Analysis) and Attachment 2 (Health Risk Assessment [“HRA”]). PG&E requests that the CPUC incorporate into the FEIR the information and proposed revisions to the RDEIR presented in this letter and Attachments 1-2 hereto. These comments supplement PG&E’s February 22, 2021 comments on the original Draft Environmental Impact Report (“Draft EIR”), which are incorporated herein by reference.

## **II. COMMENTS ON IMPACT ANALYSIS AND MITIGATION MEASURES**

### **A. The Permanent Conversion of Farmland Resulting from the Proposed Project Is Below the Significance Threshold Used Previously by the CPUC, Which Should Be Used Here**

The CPUC determined that the Proposed Project’s permanent conversion of 2.65 acres of Farmland of Statewide Importance, 11.78 acres of Unique Farmland, and less than 0.01 acres of Prime Farmland is a significant and unavoidable impact. As discussed in PG&E’s comments on the original Draft EIR, this conclusion is at odds with the threshold of significance applied by the CPUC in several recent siting cases. The CPUC appears to have interpreted the question posed in CEQA Guidelines Appendix G—whether the Proposed Project would “Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance . . . to nonagricultural use”—to be a significance threshold so that any amount greater than zero acres of permanent conversion of Prime Farmland, Unique Farmland, or Farmland of Statewide Importance is a significant impact. However, the first paragraph of Appendix G: Environmental Checklist Form of the CEQA Guidelines specifically notes that “the sample questions in [Appendix G] are intended to encourage thoughtful assessment of impacts, and do not necessarily represent thresholds of significance.” Subsequent caselaw confirms that lead agencies are not required to use any of the questions in the checklist as standards of significance and may develop their own thresholds instead. *See e.g., San Francisco Baykeeper, Inc. v State Lands Comm’n* (2015) 242 CA4th 202, 227; *Save Cuyama Valley v County of Santa Barbara* (2013) 213 CA4th 1059, 1068; *Mount Shasta Bioregional Ecology Ctr. v County of Siskiyou* (2012) 210 CA4th 184, 205.

The significance threshold applied here contrasts with other siting proceedings in which the CPUC applied a standard of significance for permanent impacts to agricultural resources based on the Williamson Act’s declaration that farmland is large enough to sustain agricultural

use if it is at least 10 acres of prime farmland or at least 40 acres for land that is not prime farmland. Cal. Government Code § 51222. *See* Shepherd Substation Project Initial Study/Mitigated Negative Declaration (IS/MND) (May 2012)), pp. 3.2-8 to 3.2-9; Sanger Substation Expansion Project IS/MND (March 2017), p. 5.2-4; Gill Ranch Gas Storage Project Final Initial Study/MND (September 2009); SCE’s Devers-Palo Verde No. 2 Transmission Line Project EIR (October 2006). *See also* SCE’s Antelope-Vincent 500 kV Project, where the CPUC found that the total amount of Prime Agricultural Land that would be permanently disturbed could exceed “the 10 acres for Prime Farmland that has been established as the threshold level of significance for conflicting with a Williamson Act contract, thereby resulting in significant and unavoidable impacts.” (D.07-03-045, March 15, 2007.) In other projects, the CPUC simply found the amount of converted farmland negligible compared to the amount of farmland available in the county-wide area. *See* Fulton-Fitch Mountain Reconductoring Project IS/MND (October 2017), p. 3.2-7; SCE Valley-Ivyglen and Alberhill Projects’ combined EIR (April 2017), p. 4.2-6.

The significance threshold in these prior cases is far more reasonable than the illogical threshold proposed in the RDEIR. The “greater-than-zero” threshold applied in the RDEIR would result in a significant impact finding for any project that permanently converts any measurable amount of Prime Farmland, Unique Farmland or Farmland of Statewide Importance, potentially triggering an EIR for most projects that currently could be analyzed with a mitigated negative declaration (MND). Applying instead the significance threshold endorsed by the CPUC in the Sanger Project and other projects mentioned above, the proposed Estrella Substation site – which would permanently convert 14.34 acres of Farmland of Statewide Importance and Unique Farmland and zero acres of Prime Farmland – would be less than the 10-acre significance threshold for prime farmland and less than the 40-acre significance threshold for non-prime farmland. In short, under this threshold, substation construction would not result in a significant conversion of agricultural resources.

The RDEIR’s analysis of agricultural impacts of the proposed 70 kV line demonstrates the absurdity of relying on the greater-than-zero significance threshold. The RDEIR concludes that the proposed power line route would result in a significant impact to agricultural resources because it would convert less than 0.01 acres of Prime Farmland, approximately 0.03 acres of Farmland of Statewide Importance, and approximately 0.06 acres of Unique Farmland.<sup>1</sup> Under

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<sup>1</sup> The RDEIR also fails to consider the Unique Farmland and Farmland of Statewide Importance that would be restored following the removal of the existing distribution poles and the existing 230 kV tower located in the general vicinity of the proposed Estrella Substation. Four existing poles to be removed are located on Unique Farmland and four are located on Farmland of Statewide Importance. The existing 230 kV tower to be removed is located in Unique Farmland. Agricultural crops were previously removed within an area around each existing distribution pole equal to approximately 10 feet in diameter, returning this area back to agricultural use would result in a net reduction of permanent impacts by approximately 314 square feet of Unique Farmland and 314 square feet

the significance threshold adopted by the CPUC on previous projects, and under any logical analysis, these minimal conversions of farmland due to construction of the 70 kV line would be found less than significant.

**B. The Air Quality Impact Analysis and Mitigation Measures Should Be Revised to Incorporate the Applicants' Revised Air Quality Calculations, Health Risk Assessment and Comments on Valley Fever**

**1. Revised Air Quality Calculations Based on Refined Helicopter Assumptions and Updated Schedule Should Be Incorporated into the Revised Air Quality Section**

The air quality calculations presented in Section 4.3, Air Quality, of the RDEIR are based on grossly overestimated helicopter use assumptions and do not incorporate the schedule changes that were accepted in the RDEIR Project Description. Revised air quality calculations were provided in Attachment 3 of PG&E's comments on the original Draft EIR to account for updates to the project schedule to address revised estimates of the availability of construction resources and an additional week of grading required for the modified substation design, and to incorporate the refined assumptions regarding helicopter use. The RDEIR contains the revised project schedule provided by PG&E in its comments on the original Draft EIR, but does not include the revised emissions estimated associated with the revised schedule. Therefore, PG&E is submitting the revised air quality emissions data in Attachment 1 hereto, which includes an updated construction emissions summary table that clarifies that the quarterly emissions provided in PG&E's comments on the Draft EIR were annual average quarterly emissions and identifies the maximum quarterly emissions.

The revised calculations demonstrate that air quality emissions would be below the San Luis Obispo Air Pollution Control District (SLOAPCD) Reactive Organic Gases plus Oxides of Nitrogen (ROG + NO<sub>x</sub>) daily and quarterly Tier 2 thresholds, and below the fugitive particulate matter less than 10 microns in diameter (PM<sub>10</sub>) quarterly threshold. In contrast, the RDEIR concludes that these emissions would be significant and unavoidable:

*Although HWT identified changes to the schedule and phasing of construction activities in the Project Description (see revisions in the revised DEIR Chapter 2, included in this recirculated DEIR), no changes were made to the air pollutant emissions modeling assumptions or results compared to the original DEIR. The CPUC maintains that the schedule and equipment assumptions used in the air quality analysis are **reasonable estimates** for the project given the information*

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Farmland of Statewide Importance. Agricultural crops were previously removed within an approximately 100-foot by 50-foot area around the existing 230 kV tower, returning this area back to agricultural use would result in a net reduction of permanent impacts by approximately 5,000 square feet (0.12 acre) of Unique Farmland. The FEIR should be revised to account for this restored farmland.

*provided and considering that some uncertainty still exists regarding the construction schedule (additional changes are possible in the future given that final design and engineering has not yet been completed). The changes to the schedule and phasing included in the revised DEIR Chapter 2 **would not substantially change** the results of the original analysis of air pollutant emissions included in Section 4.3, "Air Quality." (RDEIR page 1-14 to 1-15)*

The schedule assumptions used in the air quality analysis are not reasonable estimates since the construction schedule has been revised from a total of 7 months to a total 21 months, spreading out construction emissions over a period three times the length of the original estimate. The reduction in overlap between the project phases results in substantial reductions in the ROG + NO<sub>x</sub> emissions to more than 10 percent below the daily threshold and more than 54 percent below the quarterly Tier 2 thresholds, and substantial reductions in the fugitive PM<sub>10</sub> emissions to more than 70 percent below the quarterly threshold, as shown in Attachment 1.

As described in response to Data Request No. 5 (submitted in February 2020), the originally proposed project schedule was an accelerated schedule to support a project in-service date in 2019 with the use of multiple PG&E and contract crews to support the schedule. This would have required multiple crews working on both the new and reconducted section at the same time. Due to the uncertainty of the project scope and the current wildfire events, which reduces the availability of transmission line construction resources, an accelerated schedule is no longer a viable option, and a revised schedule has been provided. While the revised construction schedule was incorporated into the RDEIR Project Description, the schedule changes were not carried forward in the Air Quality section, which presents an inconsistent approach to evaluating the project.

The equipment assumptions in the air quality analysis are also not reasonable estimates since the estimated helicopter use in the RDEIR is more than 34 times the total provided by PG&E in their comments on the original Draft EIR (RDEIR's estimate of 1,320 hours versus PG&E's refined estimate of 38.3 hours). The RDEIR estimate is based on general information provided in the Proponent's Environmental Assessment (PEA) regarding the period over which helicopters may operate; however, it was not a statement of the total helicopter operating times. The RDEIR also assumes that a heavy-duty helicopter (Sikorsky S92A) would be required for all activities requiring a helicopter; however, as explained in Attachment 4 of PG&E's comments on the original Draft EIR, a light/medium helicopter would be used for conductor installation on the new 70 kV power line segment and a heavy lift helicopter would only be required for pole installation/removal along the 70 kV reconductoring segment, which reduces the associated air quality emissions. PG&E revised the air quality emissions to reflect realistic use of helicopters on this project, based on recent project construction experience, as shown in Attachment 4 of PG&E's comments on the original Draft EIR.

Table 4.3-5a in the RDEIR also assumes that helicopter operation would overlap with worst case California Emission Estimator Model (CalEEMod) daily emissions of ROG + NO<sub>x</sub>,

in which, the daily emissions from CalEEMod sources and helicopters are added to get the total maximum daily emissions. However, as a result of the modified schedule and helicopter assumptions, the helicopter emissions would not overlap with the worst case CalEEMod daily emissions and these sources should not be added to get the total maximum daily emissions. The maximum daily emissions of ROG + NOx would be below the daily threshold, as shown in Attachment 1 hereto.

The changes to the schedule and phasing included in RDEIR Chapter 2 and the revised helicopter equipment assumptions would substantially change the results of the original analysis of air pollutant emissions. Specifically, the impact would be less than significant for ROG + NOx daily and quarterly Tier 2 thresholds, as well as the PM<sub>10</sub> quarterly threshold, not significant and unavoidable. Therefore, the revised air quality analysis provided in Attachment 1 should be incorporated into the Air Quality section.

**2. Based on the Revised Air Quality Calculations, Daily and Quarterly Tier 2 ROG + NOx and Quarterly PM<sub>10</sub> Emissions Would Be Below the SLOAPCD Significance Thresholds; Therefore, a Construction Activity Management Plan (CAMP) Would Not Be Required by the SLOAPCD and Mitigation Measure AQ-1 Should be Limited to Addressing the SLOAPCD Requirements for Exceedance of the Quarterly Tier 1 ROG + NOx Threshold**

The revised air quality analysis provided in Attachment 1 hereto demonstrates that the air quality impacts would be below the SLOAPCD thresholds of significance, except for the ROG + NOx quarterly Tier 1 threshold. Accordingly, Mitigation Measure AQ-1 should be limited to the SLOAPCD requirements for exceedance of the Tier 1 threshold. The SLOAPCD mitigation measures applicable to the project are the Fugitive Dust Mitigation Measures: Expanded List, Standard Mitigation Measures for Construction Equipment, and Best Available Control Technology for Construction Equipment.<sup>2</sup> Most of these measures are already included applicant-proposed measures (APMs) AIR-1 through AIR-3. The SLOAPCD does not require a CAMP or Construction Phase Offsite Mitigation as outlined in Mitigation Measure AQ-1 for projects below the ROG+NOx daily threshold and Tier 2 significance thresholds. Mitigation Measure AQ-1 should be modified to state that a CAMP would be prepared if required by the SLOAPCD. Based on a call with SLOAPCD on December 21, 2021, if the CPUC requires a CAMP, staff members indicated that they would review it, but their review would likely be limited to reviewing the final air quality calculations and stating that the CAMP and offsite mitigation is not required. Mitigation Measure AQ-1 should be deleted, and a CAMP should only be prepared if required by the SLOAPCD, and the mitigation measure should be deleted.

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<sup>2</sup> <https://storage.googleapis.com/slocleanair-org/images/cms/upload/files/CEQA%20Webpage%20Quick%20Guide2.pdf>

If reference to a CAMP is retained in Mitigation Measure AQ-1, it should be modified to clarify that two separate CAMPs would be prepared, one for PG&E and one for HWT, since the areas of responsibility, construction activities, and duration of construction are different. Once the 230 kV substation activities are complete, HWT would relinquish any responsibilities under the CAMP. SLOAPCD staff indicated that this approach is acceptable and if reporting is required, a summary report would be included with each applicant's submittals to account for total project emissions.

In addition, it does not appear that the Energy Division revised Mitigation Measure AQ-1 based on any of the new information that triggered recirculation of portions of the original Draft EIR. As stated in Section 1.2 of the RDEIR:

*The text of Mitigation Measure AQ-1 is revised to provide minimum performance standards for measures that may be included into the CAMP for mitigating fugitive dust and construction equipment emissions. Text is also added to Mitigation Measure AQ-1 to identify specific fugitive dust control measures that must be implemented during Proposed Project construction. Mitigation Measure AQ-1 is also revised to provide for coordination with SLOAPCD to establish emission offsets to reduce net emissions below applicable quarterly thresholds, if emissions are projected to exceed thresholds. (RDEIR page 1-14)*

Because no new information was provided in the RDEIR that challenged the adequacy of Mitigation Measure AQ-1, the revisions to this mitigation measure in the RDEIR are not warranted.

If the revised Mitigation Measure AQ-1 is retained, it should be clarified to state that equipment washing and track-out prevention measures would only apply to the substation site, since these measures are not feasible for each of the pole site locations. The Stormwater Pollution Prevention Plan that would be prepared to comply with the State Water Resources Control Board Construction General Permit would include best management practices to control track out along the power line components.

Following guidance from the SLOAPCD, a CAMP is not necessary for the project based on the latest air quality emission calculations; therefore, Mitigation Measure AQ-1 should be revised.

**3. The HRA Provided by Adams Broadwell Joseph & Cardozo (Adams Broadwell) Does Not Accurately Reflect the Potential Health Impacts; an HRA Based on the Latest Project Information Has Been Prepared by the Applicants that Demonstrates that Impacts are Less Than Significant**

The HRA included in the comments from Adams Broadwell on the original Draft EIR did not include adequate information for the CPUC to conduct a review for accuracy. The CPUC stated:

*Information provided by the commenters and their consultants was not adequate to conduct a thorough review to determine if their model accurately represents the Proposed Project, as it did not include key details required to make their study reproducible regarding the specific sources spatial representation and actual emissions assigned to specific sources were not provided. Despite, the lack of detailed information provided, the analysis in this recirculated DEIR now conservatively concludes that a few receptors located close to the project construction areas, in particular the Estrella Substation area, may experience increased TACs [toxic air contaminants], which may lead to adverse health impacts. Thus, the significance determination for Impact AQ-3 has been changed to significant and unavoidable.” (RDEIR at 1-10.)*

The CPUC should not rely on the Adams Broadwell HRA because of these noted deficiencies. The CPUC acknowledges that it cannot “determine if their model accurately represents the Proposed Project.” (Id.) The CPUC recognizes that the Adams Broadwell HRA “lacks key details ... regarding specific sources spatial representation and actual emissions assigned to specific sources.” (Id.) As a result, the CPUC determined that the Adams Broadwell HRA is not reproducible. Despite the lack of detailed information necessary to reproduce the results identified in the Adams Broadwell HRA, the CPUC accepted their conclusions at face value “out of an abundance of caution” (RDEIR page 1-9). However, the model does not follow applicable Office of Environmental Health Hazard Assessment (OEHHA) guidance. Therefore, making a determination based on such a model that a significant and unavoidable impact will occur, on its face, is an “arbitrary and capricious” decision because the Adams Broadwell HRA should not be deemed substantial evidence.

Even if the Adams Broadwell HRA could be considered to be substantial evidence, it runs contrary to the CPUC’s own qualitative analysis in the original DEIR, which it concluded “supports a finding that human health impacts from construction-related DPM [diesel particulate matter] and other TAC emissions would be relatively limited due to the short construction duration and the sparsely populated area surrounding the project site” (RDEIR page 2-R.4.3-27). The CPUC has the discretion to weigh evidence and reach its own conclusions, and it should not adopt an “abundance of caution standard” to substitute Adams Broadwell’s flawed HRA for the CPUC’s own analysis.



Although the Applicants agree with the CPUC that an HRA is not required for this project, the Applicants prepared an HRA to evaluate the findings in the Adams Broadwell HRA. To accurately represent the project's potential health risks/impacts, SWCA Environmental Consultants (SWCA) prepared a robust and detailed HRA for the Applicants based on the updated air quality emissions. Applicants' HRA is provided in Attachment 2. The Applicants' HRA demonstrates that health risks would be below the significance thresholds for all project components.

In addition to the flaws noted by the CPUC, the Adams Broadwell HRA is based on the outdated project schedule and air quality emissions estimates. Therefore, it does not accurately represent the project as proposed by the Applicants. For example, as indicated by the CPUC, Scenario 2 presented in the Adams Broadwell HRA assumes 100 percent Tier 2 engines (p. 7; although note the inconsistencies on this point note below), which is more conservative than the unmitigated emissions because implementation of California off-road fleet rules requires most fleets to have most equipment use better than Tier 2 engines. Therefore, Scenario 2 in the HRA is not reasonable.

In addition, PG&E's air quality subject matter expert identified the following deficiencies in the Adams Broadwell HRA that are addressed in the HRA prepared by SWCA for the Applicants:

- It assumes a 2-year construction period without providing a citation, and contrary to the information provided in the original Draft EIR.
- The Adams Broadwell HRA did not evaluate the chronic hazard index (HI) for DPM. The Applicants' HRA appropriately evaluates the DPM chronic HI risk metric.
- DPM acute HI should be based on the maximum 1-hour air concentration and 1-hour Reference Exposure Level (REL) (OEHHA 2015<sup>3</sup>) as depicted in the Applicant's HRA (not in the Adams Broadwell HRA). Therefore, in the absence of an OEHHA REL, the Texas Commission on Environmental Quality's 1-hour Effects Screening Level is used for the Applicants' HRA to determine the DPM acute HI. The Adams Broadwell HRA relies on an REL established by Government of Canada that is based on a 2-hour exposure.
- The Applicants' HRA utilizes the latest American Meteorological Society/United States Environmental Protection Agency Regulatory Model (AERMOD) model version (21112). The Adams Broadwell HRA utilizes version 19191, which is outdated.

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<sup>3</sup> <https://oehha.ca.gov/air/crnrr/notice-adoption-air-toxics-hot-spots-program-guidance-manual-preparation-health-risk-0>

- The Applicants' HRA utilizes CalEEMod to estimate emissions from the project pursuant to SLOAPCD CEQA Air Quality Handbook (SLOAPCD 2012<sup>4</sup>). Adam Broadwell's HRA utilizes historical fuel usage data, which is less accurate.
- The Adams Broadwell HRA did not provide an explanation of how terrain elevations were obtained.
- The Adams Broadwell HRA does not clarify whether the Tier 2 Ambient Ratio Method 2 (ARM2) was used to predict Nitrogen Dioxide/NOx ratios.
- The Applicant's HRA includes background concentration data to determine the total predicted concentration during project construction for comparison to the California Ambient Air Quality Standards. Background concentration justification is also provided in Section 8 of the Applicants' HRA. The Adams Broadwell HRA does not discuss or depict if any background concentration data was included in their HRA.
- The Applicants' HRA provides a brief evaluation of applicable occupational standards associated with the California Division of Occupational Safety and Health. The Adams Broadwell HRA does not.
- The Applicants' HRA provides measures to reduce project impacts by implementing prohibition of diesel idling within 1,000 feet of sensitive receptors and on-road equipment idling will be restricted. Additionally, idling will be limited for on-road vehicles and off-road diesel equipment. These mitigation measures are discussed in Section 7 of The Applicants' HRA.
- In addition to lacking "key details," as noted in the RDEIR, the Adams Broadwell HRA contains numerous omissions and inconsistencies that undermine its credibility, including but not limited to the following:
  - The References section does not list all of the sources cited to in the text of the document, such as the PEA or the original Draft EIR, DieselNet, and the AERMOD model. In addition, the OEHHA 2012 citation in fn.3 is not listed in the References section; instead, there is an OEHHA 2015 citation in the References section.
  - No citation is provided in fn. 8 for California short-term air quality standard for oxides of nitrogen; instead, fn. 8 states "Please add a reference."
  - It makes a claim on page 7 about the contents of the PEA regarding the emissions standards that equipment used on the project would meet without providing a citation to the PEA.
  - On page 5, the Adams Broadwell HRA states that its conclusions are presented in Section 4, when in fact they are presented in Section 5.
  - On page 7, it states that it "assumed the use of 100% Tier 2 engines" in its analysis of Scenario 2. However, on page 12, it states in section 4.2 that its analysis of acute non-cancer risks (1-hour exposure to DPM) is based the use of

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<sup>4</sup> [https://storage.googleapis.com/slocleanair-org/images/cms/upload/files/CEQA\\_Handbook\\_2012\\_v2%20%28Updated%20MemoTable1-1\\_July2021%29\\_LinkedwithMemo.pdf](https://storage.googleapis.com/slocleanair-org/images/cms/upload/files/CEQA_Handbook_2012_v2%20%28Updated%20MemoTable1-1_July2021%29_LinkedwithMemo.pdf)

“Tier 2 and 3” construction equipment. Similarly, it states in section 4.1 [sic] that its analysis of acute non-cancer risk (1-hour exposure to oxides of nitrogen) “assumes the use of Tier 3 construction equipment.” An HRA with these inconsistencies should not be relied on in the EIR.

- On page 12, it states in section 4.1 that its analysis of cancer risks (2 year exposure to DPM) that the cancer risk for Scenario 1 “ranges from 0.1 to 25 in a million.” However, in Table 5-1 on page 20, it states that the cancer risk for Scenario 1 is “0.5 to 40 cancers per million.” An HRA with these inconsistencies should not be relied on in the EIR.

Therefore, the Air Quality section should be revised to reflect the results of the HRA prepared by SWCA for the Applicants and conclude that health impacts from construction-related DPM and other TAC emissions would be less than significant.

#### **4. Exposure of Sensitive Receptors to Valley Fever Would be Reduced to Less than Significant with Implementation of a Valley Fever Management Plan (VFMP) (Mitigation Measure AQ-2)**

PG&E agrees with the assessment in the original Draft EIR under Impact AQ-3 that there is a very low potential for fugitive dust (and associated Valley Fever spores) to impact sensitive receptors during construction, and that impacts would be less than significant due to the limited construction duration, limited construction emissions, and sparsely populated area surrounding the project site, which would be further reduced with implementation of APMs AIR-1 to AIR-3. This finding is consistent with CEQA documents prepared by the CPUC and other lead agencies on similar projects in areas where Valley Fever is highly or suspected endemic.

The IS/MND for the Vierra Reinforcement Project in San Joaquin County (CPUC 2021<sup>5</sup>) found that Valley Fever-causing spores were not likely to occur in cultivated fields and heavily urbanized areas (Kern County Public Health Services Department 2019<sup>6</sup>). The majority of the land that would be disturbed by the Vierra Reinforcement Project is in cultivated fields or urbanized areas. With implementation of an APM calling for a Dust Control Plan, impacts were determined to be less than significant, and no mitigation measures were recommended. Many of the areas that will be disturbed during construction of the Estrella project are in cultivated fields (e.g., vineyards); therefore, the risks in those areas are lower. The Air Quality section should be revised to provide additional context for the areas of the project that have greater risks.

The EIR for the California Flats Solar Project (Monterey County 2014<sup>7</sup>), an over 2,000-acre solar project, found that standard construction best management practices to minimize

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<sup>5</sup> [https://ia.cpuc.ca.gov/environment/info/CEC/VierraReinforcement/PDFs/Vierra\\_Final\\_IS\\_MND.pdf](https://ia.cpuc.ca.gov/environment/info/CEC/VierraReinforcement/PDFs/Vierra_Final_IS_MND.pdf)

<sup>6</sup> <http://kerncountyvalleyfever.com/what-is-valley-fever/prevention/>

<sup>7</sup> <https://www.co.monterey.ca.us/home/showdocument?id=48160>

fugitive dust emissions and standard erosion control measures would minimize potential hazards associated with the release of fungal spores. In addition, mitigation measures requiring preparation of a VFMP, dust suppression measures, worker training program and safety measures, and an information handout was included. The lead agency, Monterey County, concluded that the mitigation measures would ensure that construction personnel would be adequately protected from exposure to Valley Fever during grading and other earth-moving activities, reducing impacts to a less than significant level. The Estrella project includes similar APMs and mitigation measures and a much smaller temporary and permanent disturbance area (less than 150 acres); therefore, the significance determination should be less than significant with mitigation.

The IS/MND for the Downs Substation Project in Kern County (CPUC 2012<sup>8</sup>) found that there is a high potential for temporary high fugitive dust and valley fever spore exposures during substation construction. It also found that the linear construction aspects would have lower potential for emissions and would not impact any single location/receptor significantly due to the continuous moving nature of these construction activities. Implementation of a Fugitive Dust Control Plan was included as a mitigation measure and reduced the impacts to construction workers and area residents to less than significant. The impacts from the Estrella project would be of a similar nature and the Applicants have proposed similar APMs; therefore, the impacts should be considered less than significant with mitigation.

Based on previous precedent, the air quality analysis should be revised to provide additional context for areas where Valley Fever spores are more or less likely to occur and impacts should be considered less than significant with implementation of APMs AIR-1 through AIR-3 and Mitigation Measure AQ-2.

**5. Mitigation Measure AQ-2 Should Be Revised To State That the Applicants Will Consult with the California Department of Public Health (CADPH) and the San Luis Obispo Department of Public Health (SLODPH) Rather Than Requiring these Agencies to Review the VFMP**

Mitigation Measure AQ-2 states that “The VFMP shall be submitted to the California Department of Public Health and the San Luis Obispo Department of Public Health for review” (RDEIR page 2-R.4.3-28). The text preceding the mitigation measure states that “Mitigation Measure AQ-2 requires, prior to the start of construction, the project applicants or their contractors to draft a Valley Fever Management Plan (VFMP), consult with the California Department of Public Health and the San Luis Obispo Department of Public Health regarding Valley Fever best mitigation practices and implement all such feasible measures recommended by these agencies” (RDEIR page 2-R.4.3-28).

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<sup>8</sup> [https://ia.cpuc.ca.gov/Environment/info/aspen/downs\\_sub/DownsDraft/MND-IS/B3-03\\_AirQuality.pdf](https://ia.cpuc.ca.gov/Environment/info/aspen/downs_sub/DownsDraft/MND-IS/B3-03_AirQuality.pdf)

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Based on initial discussions with the CADPH on December 21, 2021, they do not typically review VFMPs, but can advise on recommended measures to include in the plan. Initial discussions with the SLODPH on December 21 and 22, 2021, revealed the same; however, they are willing to review the plan. Because these agencies do not have authority over the project or power of approval for the VFMP, the mitigation measure text should be changed to say that the Applicants will “consult” with the CADPH and SLODPH in the preparation of the VFMP and delete references to “review.”

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Thank you for considering PG&E’s comments. Please do not hesitate to contact me with any questions.

Very truly yours,

/s/ Mathew Swain

Mathew Swain

Senior Attorney

Paragon Legal

601 California Street, Suite 615

San Francisco, California 94108

Telephone: (415) 407-6066

Facsimile: (415) 973-5520

Email: [Mathew.Swain@pge.com](mailto:Mathew.Swain@pge.com)

Attorney for Pacific Gas and Electric  
Company

**Attachments - Additional Documents Provided With This Letter:**

**Attachment 1: Revised Air Quality Analysis**

**Attachment 2: Health Risk Assessment**

Estrella Substation and Paso Robles Area Reinforcement Project  
Comments on Recirculated Draft Environmental Impact Report

**Attachment 1**

**Revised Air Quality Analysis  
Summary Table**

**Proposed Project Construction Emissions**

	CO	ROG	NO <sub>x</sub>	ROG + NO <sub>x</sub>	SO <sub>x</sub>	Fugitive Dust PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	DPM
<b>Maximum Daily Emissions (lbs/day)</b>									
CalEEMod Sources (unmitigated)	77.59	11.89	110.48	122.37	0.28	8.47	12.38	7.38	3.91
Helicopter (unmitigated)	11.86	1.60	30.17	30.56	3.58	46.30	48.36	48.36	0.00
Total Maximum Daily (unmitigated)	79.88	11.89	110.48	122.37	3.83	47.78	52.66	51.37	3.91
CalEEMod Sources (mitigated)	77.59	11.89	110.48	122.37	0.28	4.05	7.96	5.28	3.91
Helicopter (mitigated)	11.86	1.60	30.17	30.56	3.58	46.30	48.36	48.36	0.00
Total Maximum Daily (mitigated)	79.88	11.89	110.48	122.37	3.83	47.78	52.66	51.37	3.91
Significance Thresholds	-	-	-	137	-	-	-	-	7
Significant?	-	-	-	No	-	-	-	-	No
<b>Maximum Quarterly Emissions (tons/quarter)</b>									
CalEEMod Sources (unmitigated) annual average / maximum *	-	-	-	1.18 / 2.79	-	0.04 / 0.62	-	-	0.04 / 0.10
Helicopter (unmitigated)	-	-	-	0.09	-	0.12	-	-	-
Total Quarterly (unmitigated) annual average / maximum *	-	-	-	1.28 / 2.88	-	0.16 / 0.74	-	-	0.04 / 0.10
CalEEMod Sources (mitigated) annual average / maximum *	-	-	-	1.18 / 2.79	-	0.03 / 0.61	-	-	0.04 / 0.10
Helicopter (mitigated)	-	-	-	0.09	-	0.12	-	-	-
Total Quarterly (mitigated) annual average / maximum *	-	-	-	1.28 / 2.88	-	0.14 / 0.73	-	-	0.04 / 0.10
Significance Thresholds	-	-	-	Tier 1 2.5 Tier 2 6.3	-	2.5	-	-	0.13
Significant?	-	-	-	No / Yes, Tier 1	-	No	-	-	No

*Estrella Substation and Paso Robles Area Reinforcement Project*

	CO	ROG	NO <sub>x</sub>	ROG + NO <sub>x</sub>	SO <sub>x</sub>	Fugitive Dust PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	DPM
<b>Total Project Emissions (tons)</b>									
CalEEMod Sources (unmitigated)	6.82	0.97	8.63	9.60	0.02	0.29	0.60	0.38	0.31
Helicopter (unmitigated)	0.04	0.01	0.15	0.16	0.02	0.21	0.22	0.22	-
Total Construction Project (unmitigated)	6.86	0.98	8.78	9.76	0.04	0.50	0.82	0.60	0.31
CalEEMod Sources (mitigated)	6.82	0.97	8.63	9.60	0.02	0.22	0.53	0.35	0.31
Helicopter (mitigated)	0.04	0.01	0.15	0.16	0.02	0.21	0.22	0.22	-
Total Construction Project (mitigated)	6.86	0.98	8.78	9.76	0.04	0.43	0.75	0.57	0.31

Note: Some totals may be off due to rounding.

\* Note that the quarterly emissions are shown both as a quarterly annual average based on the CALEEMOD user guide tips (available here: <http://www.aqmd.gov/caleemod/user-s-guide/users-tips>) and a quarterly maximum based on emissions either calculated by CALEEMOD (in the case of ROG + NO<sub>x</sub>) or estimated based on maximum daily week by week emission data over 12 weeks (note that this is conservative since the emissions are based on maximum daily emissions for that week over the entire week). According to the CALEEMOD user guide tips, quarterly emission results can be calculated by dividing the annual emissions by four or by multiplying the peak daily emission by 90 days. Since multiplying the peak daily emissions by 90 days resulted in significant overestimation of maximum quarterly emissions, the former approach was used. Since the San Luis Obispo Air Pollution Control District significance thresholds are based on maximum quarterly emissions, those calculations have been added to this table.



Estrella Substation and Paso Robles Area Reinforcement Project  
Comments on Recirculated Draft Environmental Impact Report

**Attachment 2**

**Health Risk Assessment**





ESTRELLA SUBSTATION AND PASO ROBLES  
AREA REINFORCEMENT PROJECT  
HEALTH RISK ASSESSMENT

JANUARY 2022

PREPARED FOR

**Horizon West Transmission, LLC and  
Pacific Gas and Electric Company**

PREPARED BY

**SWCA Environmental Consultants**



# **ESTRELLA SUBSTATION AND PASO ROBLES AREA REINFORCEMENT PROJECT HEALTH RISK ASSESSMENT**

Prepared for

**Horizon West Transmission, LLC and Pacific Gas and Electric Company**

Prepared by

**SWCA Environmental Consultants**

20 East Thomas Road, Suite 1700

Phoenix, Arizona 85012

(602) 274-3831

[www.swca.com](http://www.swca.com)

January 2022



# EXECUTIVE SUMMARY

A construction Health Risk Assessment (HRA) for the proposed Estrella Substation and Paso Robles Area Reinforcement Project (Project) based on revised construction schedule and phasing information was conducted by SWCA Environmental Consultants on behalf of Horizon West Transmission, LLC (HWT) and Pacific Gas and Electric Company's (PG&E). The objective of the impact assessment was to evaluate potential health risks at nearby sensitive receptors. As discussed in more detail in the report, no significant health impacts to off-site sensitive receptors are anticipated as a result of the Project's construction activities. The assessment predicts that the maximally exposed individual receptor (MEIR) could potentially be exposed to the following levels of impact during construction of the Project, which are below applicable thresholds of significance for health risks.

- The maximum 1-hour nitrogen dioxide (NO<sub>2</sub>) impact at the MEIR would be 207.00 micrograms per cubic meter (µg/m<sup>3</sup>) which is less than the CAAQS health-based standard of 339 µg/m<sup>3</sup>
- The acute hazard index (HI) for diesel particulate matter exposure (DPM) at the MEIR would be 0.6, which is less than the threshold of significance of 1.0.
- The chronic HI for DPM exposure at the MEIR would be 0.1, which is less than the threshold of significance of 1.0.
- The excess cancer risk at the MEIR would be 5.12 cases per million, which is less than the San Luis Obispo Air Pollution Control District (SLOAPCD) threshold of significance of 10 cases per million.

The Report contains the following sections detailing the results of the construction HRA:

- Section 1.0 provides a general introduction to the project.
- Section 2.0 presents a brief description of the health risk significance criteria.
- Section 3.0 provides a description of project sources and emission rates.
- Section 4.0 contains a brief description of the air dispersion modeling methodologies employed.
- Section 5.0 provides a summary of the methodologies used to conduct the HRA.
- Section 6.0 presents the HRA results.
- Section 7.0 discloses measures to reduce impacts.
- Section 8.0 discusses summarizes the main uncertainties associated with the emissions estimation, air dispersion modeling, and risk estimation components of the HRA.
- Section 9.0 includes a list of references.
- Appendix A includes CalEEMod output files based on the revised Project construction schedule and phasing.
- Appendix B includes a summary of modeled Project emission rates.
- Appendix C includes modeling results in more detail than presented in the body of the report.
- Appendix D includes detailed cancer risk calculations.

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Appendix A: CalEEMod Output

Appendix B: Project Emission Rates

Appendix C: Detailed Modeling Results

Appendix D: Detailed Risk Calculations

# 1 INTRODUCTION

Horizon West Transmission, LLC (HWT) and Pacific Gas and Electric Company's (PG&E) (collectively referred to as the "Applicants") proposed Estrella Substation and Paso Robles Area Reinforcement Project (Project) would involve construction and operation of a new 230 kilovolt (kV)/70 kV substation and a new approximately 7 mile long 70 kV power line, and replacement/reconductoring of approximately 3 miles of an existing 70 kV power line. These facilities would be located in unincorporated San Luis Obispo County and within the City of Paso Robles. The Project is intended to address deficiencies in the electrical grid system in the Paso Robles area and to accommodate projected new growth. The Draft Environmental Impact Report (DEIR) for the Project was published in December 2020, and this HRA is being completed to analyze the potential Health Risks associated with the Project construction on nearby sensitive receptors based on an updated construction schedule and phasing plan.

Completion of construction of the Project is anticipated be completed over a period of 21 months. Estrella Substation construction is scheduled to begin during the summer of 2022 and terminate just before the summer of 2023. The reconductoring segment construction is scheduled to begin in the Summer of 2022 and is expected to terminate in the spring of 2023. The 7 mile long 70 kV power line construction is anticipated to begin in early 2023 and to terminate in early 2024. Table 1 lists the detailed construction schedule information and Figure 1 shows a graphical representation of the construction Phasing. Figure 2 shows a map of the Project area.

Construction of these three project components will result in emissions of diesel particulate matter (DPM) and nitrogen dioxide (NO<sub>2</sub>). Specifically, this HRA will evaluate whether the Project construction will expose residents living near different portions of the project to significant cancer risk or chronic non-cancer health impacts (from long-term DPM exposure) and acute non-cancer health impacts (from acute DPM and NO<sub>2</sub> exposure).

NO<sub>2</sub> is a component of nitrogen oxides (NO<sub>x</sub>). Several epidemiological studies have demonstrated associations between NO<sub>2</sub> exposure and premature death, cardiopulmonary effects, decreased lung function growth in children, respiratory symptoms, emergency room visits for asthma, and intensified allergic responses (CARB 2021a). DPM encompasses the solid component of diesel exhaust which is composed primarily of elemental carbon particles and numerous adsorbed organic compounds, including over 40 known cancer-causing organic substances (CARB 2021b). More than 90 percent of DPM by mass is less than 1 μm in diameter and thus DPM is a subset of particulate matter less than 2.5 microns in diameter (CARB 2021b). Nanoscale particles (<=50 nm) comprise up to 90 percent of the particle number concentration. Due to their small size, the particles may reach the pulmonary alveoli, the sensitive gas-exchange region of the lungs (OSHWiki contributors 2020).

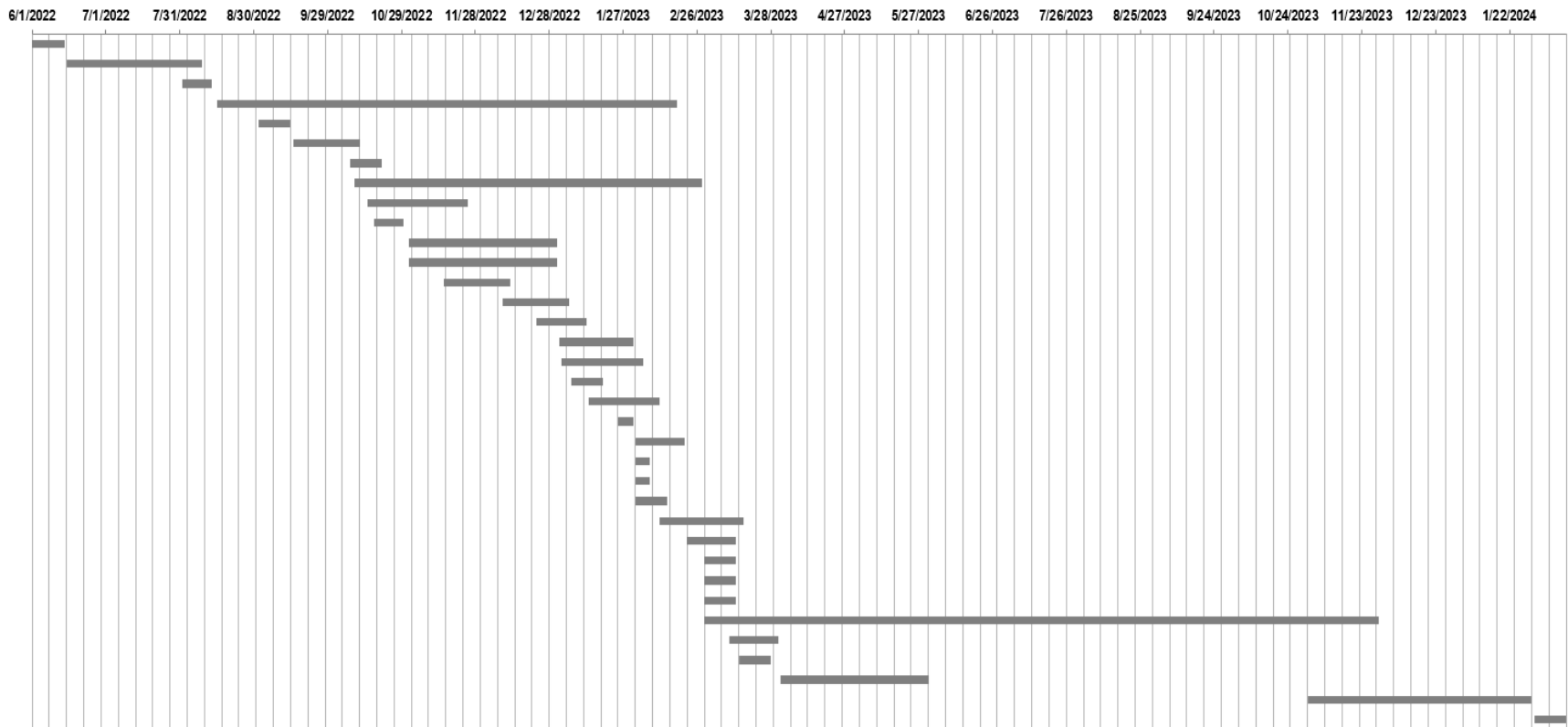
# 2 SIGNIFICANCE CRITERIA

This analysis focuses on impacts from NO<sub>2</sub> and DPM. California has established a short-term air quality standard for NO<sub>2</sub>. The form of the standard is the maximum 1-hour concentration, not to be exceeded. DPM is regulated as a toxic air contaminant or TAC. DPM has short-term acute (1-hour) and chronic health effects. Estimated exposures of sensitive receptors to DPM throughout the Project construction are used to determine excess cancer risk. The International Agency for Research on Cancer classifies diesel engine exhaust as carcinogenic to humans based on sufficient evidence that it is linked to an increased risk of lung cancer and some evidence of a positive association between diesel exhaust and bladder cancer (International Agency for Research on Cancer [IARC] 2012). In addition, other agencies have classified diesel exhaust as a "likely" or "potential carcinogen" including the U.S. Environmental Protection Agency (USEPA),

**Table 1. Construction Schedule**

Phase Name	Phase Start Date	Phase End Date	Workdays Per Week	Phase Duration (Work Days)
230 kV Transmission Site Work Area Preparation Mobilization	6/1/2022	6/14/2022	6	12
230 kV Transmission Foundation Tower Installation Remove two towers	6/15/2022	8/9/2022	6	48
Reconductoring Segment Site Development Mobilization	8/1/2022	8/13/2022	6	12
Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	8/15/2022	2/18/2023	6	144
230 kV Substation Access Roads	9/1/2022	9/14/2022	6	12
230 kV Substation Site Prep Grading Entrance Road Culverts Mobilization	9/15/2022	10/12/2022	6	24
230 kV Substation Fence and Gate Installation	10/8/2022	10/21/2022	6	12
Reconductoring Segment Conductor Installation	10/10/2022	2/28/2023	6	120
230 kV Substation Foundation Construction	10/15/2022	11/25/2022	6	36
70 kV Substation Mobilization	10/18/2022	10/30/2022	6	12
70 kV Substation Foundation Construction	11/1/2022	12/31/2022	6	48
70 kV Substation Ground Grid Conduit Installation	11/1/2022	12/31/2022	6	48
230 kV Substation Ground Grid Conduit Installation	11/15/2022	12/12/2022	6	24
230 kV Substation Steel Bus Erection	12/9/2022	1/5/2023	6	24
230 kV Substation Install Yard Rock	12/23/2022	1/12/2023	6	18
70 kV Substation Steel Bus Erection	1/1/2023	1/31/2023	6	24
230 kV Substation Transformer & Equip Delivery & Installation	1/2/2023	2/4/2023	6	30
230 kV Substation Control Enclosure Delivery and Install	1/6/2023	1/19/2023	6	12
230 kV Substation Remaining Equipment Delivery and Install	1/13/2023	2/11/2023	6	24
230 kV Transmission Conductor	1/25/2023	1/31/2023	6	6
70 kV Substation Equip Delivery & Installation	2/1/2023	2/21/2023	6	18
70 kV Substation Control Enclosure Delivery and Install	2/1/2023	2/7/2023	6	6
230 kV Transmission Site Clean-up and Restoration	2/1/2023	2/7/2023	6	6
230 kV Substation Cable Installation and Termination	2/1/2023	2/14/2023	6	12
230 kV Substation Testing and Commissioning	2/11/2023	3/17/2023	6	30
70 kV Substation Cable Installation and Termination	2/22/2023	3/14/2023	6	18
Reconductoring Segment Clean-up and Restoration	3/1/2023	3/14/2023	6	12
70 kV Power Line Site Development Mobilization	3/1/2023	3/14/2023	6	12

<b>Phase Name</b>	<b>Phase Start Date</b>	<b>Phase End Date</b>	<b>Workdays Per Week</b>	<b>Phase Duration (Work Days)</b>
70 kV Substation Install Yard Rock	3/1/2023	3/14/2023	6	12
70 kV Power Line Pole Tower Installation	3/1/2023	11/30/2023	6	216
230 kV Substation Cleanup and Restoration	3/11/2023	3/31/2023	6	18
70 kV Substation Cleanup and Restoration	3/15/2023	3/28/2023	6	12
70 kV Substation Testing and Commissioning	4/1/2023	5/31/2023	6	48
70 kV Power Line Conductor Installation	11/1/2023	1/31/2024	6	72
70 kV Power Line Clean-up and Restoration	2/1/2024	2/14/2024	6	12



**Figure 1 Project Construction Phasing**

Phase durations shown correspond to the ordered phases listed in Table 1 above.

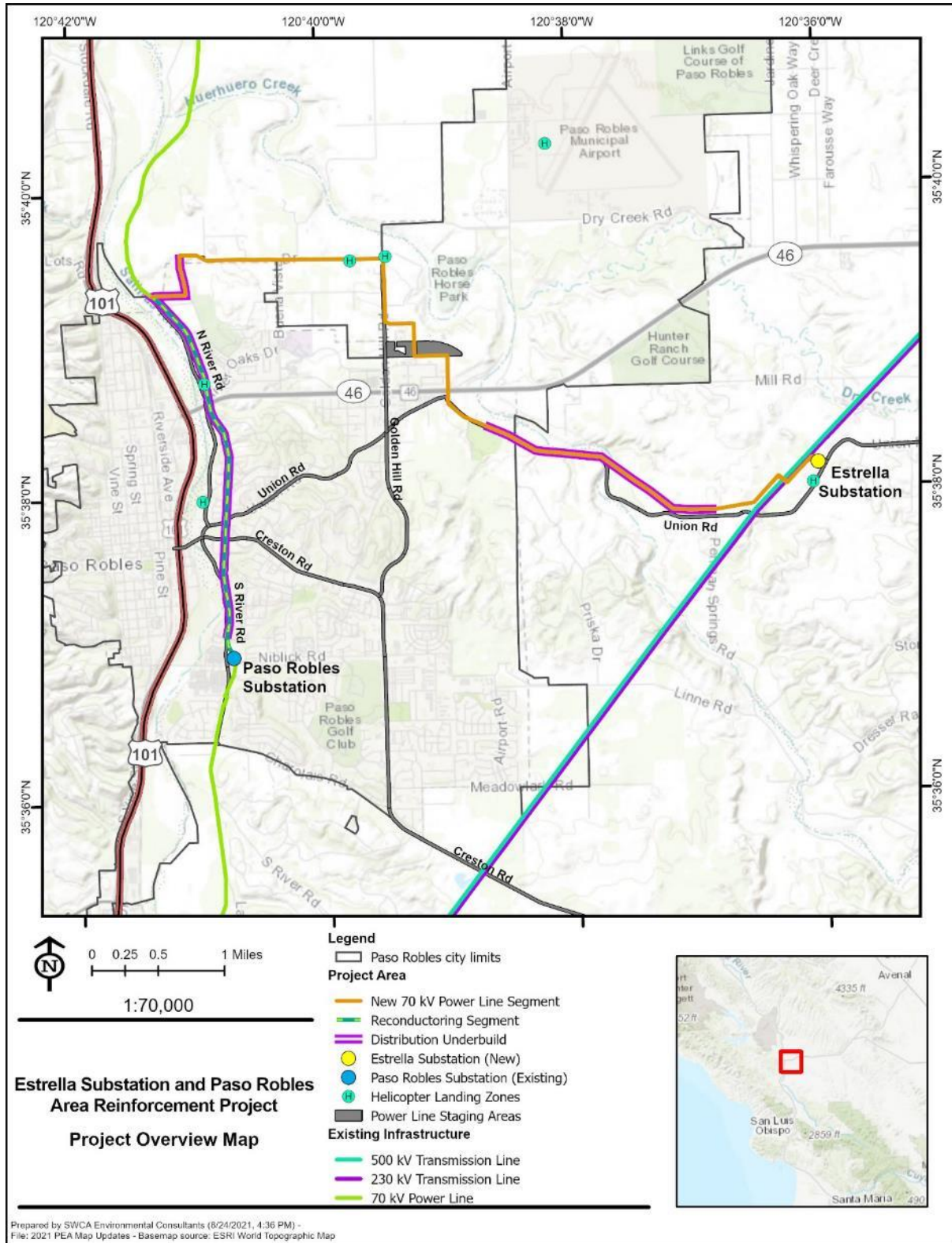


Figure 2 Project Overview Map

National Toxicology Program (NTP) and the National Institute for Occupational Safety and Health (NIOSH) (American Cancer Society 2015).

The following significance criteria in Table 2 are used in this report to assess the significance of public health risks. These criteria are based on the Office of Environmental Health Hazard Assessment (OEHHA) (OEHHA 2015), California Ambient Air Quality Standards (CAAQS), and an acute value for DPM based on an appropriate literature review.

**Table 2. Thresholds of Significance for Public Health Risks**

Risk Metric	Project-level Thresholds	Reference
Cancer Risk	10 Cancers per million	OEHHA, SLOAPCD
Ambient Concentration of NO <sub>2</sub>	1-hour average concentration of 0.18 parts per million (ppm) - not to be exceeded	California Ambient Air Quality Standards
DPM Chronic Hazard Index (HI)	HI=1 maximally exposed individual receptor (MEIR) exposure/5 micrograms per cubic meter (µg/m <sup>3</sup> )	OEHHA
DPM Acute HI	HI=1 MEIR exposure/19 µg/m <sup>3</sup>	Texas Commission on Environmental Quality Effects Screening Levels

OEHHA has not published an acute Reference Exposure Level (REL) for DPM. However, numerous studies evaluating the effects of diesel exhaust (DE)/DPM inhalation exposure on humans have found that 2-hour exposure at concentrations of 100 µg/m<sup>3</sup> may cause acute effects including increased airway resistance, increased airway inflammatory response, and modest lung function changes (Riedl et al. 2012; Mudway et al. 2004; Bendig et al. 2006; Nightingale et al. 2000; Holgate et al. 2003; Stenfors et al. 2004). Both the Government of Canada and the Texas Commission on Environmental Quality (TCEQ) have used the 100µg/m<sup>3</sup> exposure level as the lowest observed adverse effect level in order to derive short term guidance values. The Canadian Government’s short-term exposure guidance value is 10 µg/m<sup>3</sup> based on a 2-hour exposure averaging time (Government of Canada 2016). TCEQ’s acute Effects Screening Level (ESL) is 19 µg/m<sup>3</sup> diesel engine exhaust, measured as DPM, based on a 1-hour exposure averaging time (TCEQ 2015). In accordance with OEHHA Guidance, the acute HI should be based on the maximum 1-hour air concentration and 1-hour REL (OEHHA. 2015). Therefore, in the absence of an OEHHA REL, the TCEQ’s 1-hour ESL is used for this HRA to determine the DPM acute HI.

### 3 PROJECT SOURCES AND EMISSIONS ESTIMATES

This HRA evaluates the potential impacts of construction emissions from Estrella Substation, reconductoring segment, and 70 kV line to nearby sensitive receptors. Construction of the Project would generate emissions of criteria air pollutants (i.e., NO<sub>2</sub>) and TACs (i.e., DPM) from off-road construction equipment and on-road vehicles. Construction emissions are dependent on the following project information:

- Schedule and duration of construction phases
- Off-road construction equipment and activity schedules
- Construction-related haul-truck traffic volumes
- Construction worker traffic volumes

Construction of the project is estimated to start in summer of 2022 and take approximately 21 months to complete, with various activities occurring in a sequential but overlapping manner as shown in Figure 1.

Appendix A contains the output from the California Emissions Estimator Model (CalEEMod), which was used to estimate emission from the Project pursuant to SLOAPCD Guidance (SLOAPCD 2012). The analysis performed used CalEEMod Version 2016.3.2, which was the most current version of the CalEEMod at the time of the analysis.

### **Off-Road Construction Equipment**

Off-road construction equipment would generate exhaust-related emissions of DPM and NO<sub>2</sub>. To calculate emissions, the number and types of construction equipment required for each construction phase were identified, along with the hours of operation per day, horsepower, and the load factor for each respective piece of equipment. CalEEMod contains emission factors from ARB's off-road equipment emissions estimator model. Both EPA and the State of California have set emissions standards for new off-road equipment engines, ranging from Tier 1 to Tier 4. Tier 1 emission standards were phased in between 1996 and 2000, and Tier 4 interim and final emission standards for all new engines were phased in between 2008 and 2015. The emission factors for the engines were based on the fleet average, which includes all tier engines for the calendar year of the analysis based on CARB's default fleet average. Default assumptions for the parameters noted above contained in CalEEMod were used to quantify emissions. The CalEEMod default assumptions typically are conservative, providing a reasonable upper boundary for potential construction emissions.

### **On-Road Vehicles**

On-road construction sources include construction-worker vehicles, haul trucks, material delivery trucks, and on-site work trucks. CalEEMod was used to estimate exhaust NO<sub>x</sub> and PM<sub>10</sub> emissions resulting from on-road exhaust, which are used as proxies for NO<sub>2</sub> and DPM. Off-site on-road mobile source emissions are scaled based on a ratio of distance to determine the proportion of emissions that would occur within 1,000 feet of Estrella Substation. Similarly, off-site on-road mobile source emissions along the reconductoring segment and 70 kV line are scaled based on a ratio of distance to determine the proportion of emissions that would occur within the length of the Project Component (e.g., approximately 15,461 feet for the reconductoring segment and 36,020 feet for the 70 kV Line). CalEEMod incorporates emission factors from ARB's on-road emissions inventory model, EMISSION FACTORS (EMFAC).

DPM (exhaust PM<sub>10</sub>) and NO<sub>x</sub> emissions (as a proxy for NO<sub>2</sub>) were quantified from on- and off-road equipment as discussed above. The monthly maximum 1-hour NO<sub>x</sub> and DPM emissions are based on the CalEEMod maximum pound (lb)/day emissions during each calendar month of the project divided by the number of hours per day of construction (construction will typically occur from 7:00 am to 5:30 pm). The total lb/month emissions of DPM used for the cancer risk and chronic non-cancer risk assessments are based on the CalEEMod tons per year emissions and converted to lb/hour (hr) based on the number of construction hours per month. The derived monthly tons of emissions were then multiplied by 2,000 lb/ton to get lb/month. A summary of monthly maximum lb/hr and lb/month emission rates used for the analysis is included in Appendix B. Emissions per phase were determined from CalEEMod results, then based on construction schedule were allocated to specific date ranges. This was done to give a more realistic estimate of maximum hourly and average emission rates at a higher temporal resolution than the annual temporal resolution provided by CalEEMod summary reports.

PM<sub>10</sub> exhaust emissions from CalEEMod are the basis for the DPM emission rates for the purpose of this analysis. This is to maintain consistency with the 2020 DEIR, which presents PM<sub>10</sub> emissions from diesel exhaust as DPM, as well as to be consistent with the basis of the TCEQ's acute ESL for DPM, which is 19 µg/m<sup>3</sup> (PM<sub>10</sub>), as DPM. Note that using PM<sub>10</sub> exhaust emissions is conservative since DPM emissions are generally represented as PM<sub>2.5</sub> for cancer risk assessments.

### **Helicopter Emissions**



Helicopter emissions were estimated using the FAA's Aviation Environmental Design Tool (AEDT) version 3c. Helicopter operation is expected to occur during the Reconductoring phase and the 70 kV powerline phase. However, the helicopters would only operate a total of around 3 hours per day for an estimated five days during the reductoring phase and around 4 hours per day for six days during the 70 kV powerline phase. Helicopter operation in any given location within the modeling domain would be short-lived (a few minutes or less) and intermittent and therefore, unlikely to contribute to the average one-hour concentration of NO<sub>2</sub> at a receptor in any meaningful way. Additionally, the helicopters do not emit DPM so there is no contribution to DPM concentration from this source. Much of the emissions would occur outside the modeling domain and the helicopter operation at any one location would clearly not contribute meaningfully to the maximum one-hour average NO<sub>2</sub> concentration at any receptor. For these reasons, helicopters were excluded from air dispersion modeling for the purpose of this HRA.

## **4 AIR DISPERSION MODELING**

The American Meteorological Society/USEPA Regulatory Model (AERMOD) dispersion model (Version 21112) was used to estimate pollutant concentrations at specific distances from project emission sources using 5 years (2009 to 2013) of hourly upper air and surface meteorological data from the Paso Robles Airport, which was obtained from CARB.

Terrain elevations were obtained from commercially available digital terrain elevations developed by the U.S. Geological Survey by using its National Elevation Dataset (NED). The NED data provide terrain elevations with 1-meter vertical resolution and 30-meter (1 arc-second) horizontal resolution based on a Universal Transverse Mercator (UTM) coordinate system. The U.S. Geological Survey specifies coordinates in North American Datum 83, UTM Zone 10. Lakes Environmental software (Version 10.0.1) was used to process the NED data and assign elevations to the receptor locations and sources.

Receptor locations are shown in Figure 3. A grid of receptors with 25- and 50-meter spacing was modeled and the worst-case results are presented at each receptor location. Further information regarding exposure scenarios evaluated for these receptor locations is provided in Section 5.0, "Health Risk Analysis."

Emissions associated with construction equipment operation along the reductoring route and along the 70 kV line were modeled as two separate line sources. Emissions associated with construction of Estrella Substation were modeled as a single area source. The Tier 2 Ambient Ratio Method 2 (ARM2) was used in the modeling analysis to predict NO<sub>2</sub>/NO<sub>x</sub> ratios. Construction is anticipated to occur Monday through Saturday from 7 a.m. to 5:30 p.m. (conservatively represented as 6 p.m.), 6 days per week. The modeled monthly emission rates for cancer risk are based on the assumption that construction occurs approximately 273 hours per month (10.5 hours per day x 6 days per week x 52 weeks per year / 12 months per year). As such, the appropriate hourly emission rates for NO<sub>2</sub> (acute) or DPM (acute and chronic) based on the month and phase were modeled in AERMOD using the EMISFACT MHRDOW keywords.

## **5 HEALTH RISK ASSESSMENT METHODOLOGY**

### **Pollutant Concentrations**

Emissions from the above sources were run in AERMOD to determine air pollutant concentrations at sensitive receptor locations. Each source was modeled at the emission rate specified in Appendix B for NO<sub>2</sub> and DPM to determine the maximum pollutant concentration at off-site receptors. The maximum 1-hour, and average annual DPM concentration at individual sensitive receptors were compared with their

respective RELs to determine the HI. Based on the annual average concentration at individual receptors during each year of construction, cancer risks were determined for each Project year and then summed to determine total cancer risk at each individual receptor. The MEIR maximum 1-hour NO<sub>2</sub> concentration, HI results, and cancer risk for each age cohort listed in the OEHHA Guidance are presented in Section 6.

### **Receptor Exposure and Health Risk Calculations**

Exposure factors were used to calculate the dose associated with exposure to the estimated unit concentration results obtained using AERMOD. Methodologies described in the 2015 OEHHA Health Risk Assessment (OEHHA, 2015) are used to calculate HI and Cancer Risk, and maximum 1-hour Concentrations of NO<sub>2</sub> are compared against the CAAQS standard of 0.18 ppm. This Project evaluates the excess lifetime cancer risk resulting from the Project (probability expressed in terms of cases per million) for resident receptors through the inhalation pathway, using the OEHHA-Derived Method. Factors that affect the dose that a receptor would receive include but are not limited to age-specific daily

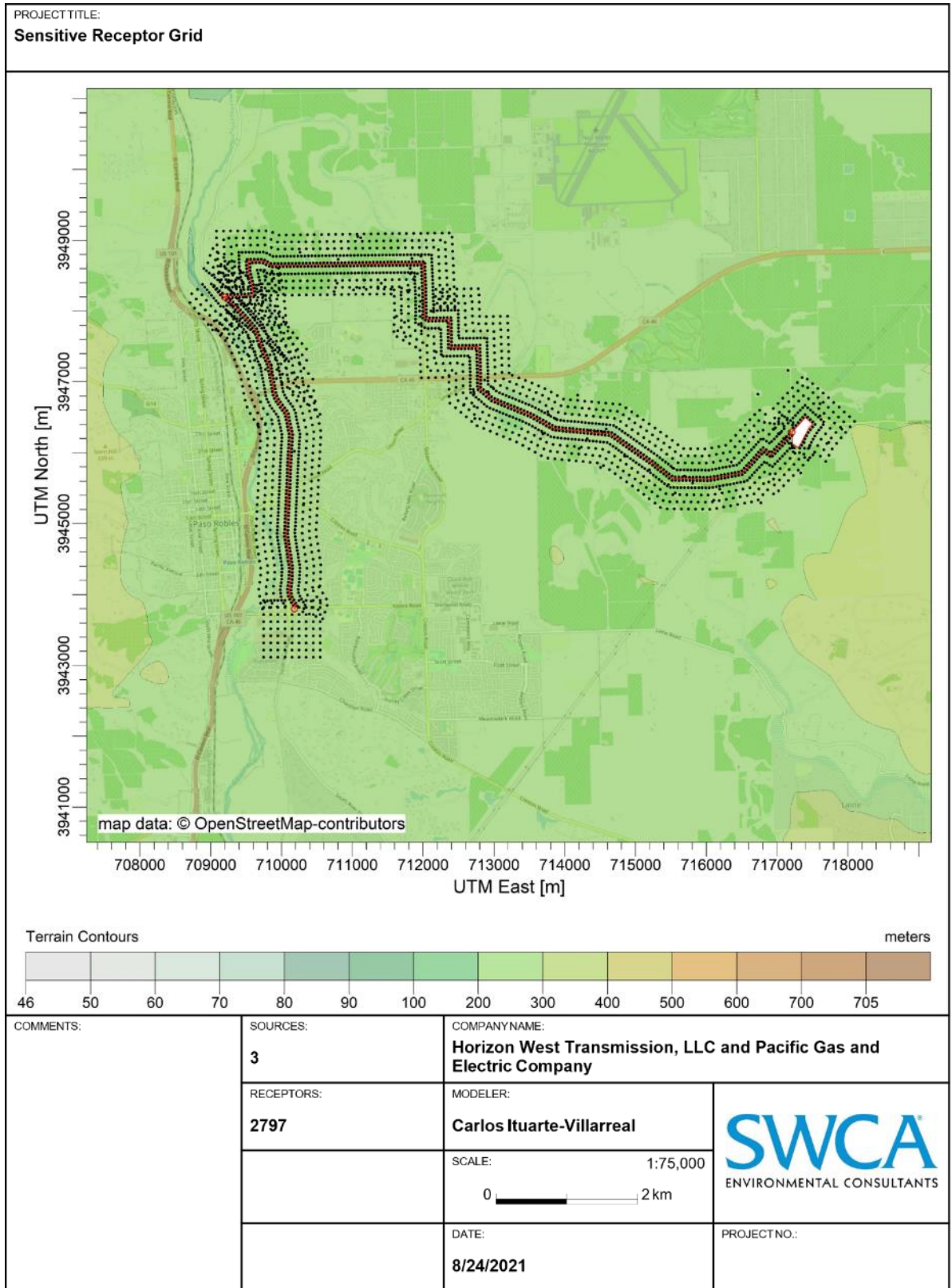


Figure 3 Receptor Grid Map

breathing rates as well as exposure time, frequencies, and duration. The general formula for calculating residential inhalation risk is as follows:

$$\mathbf{RISK_{inh-res} = DOSE_{air} \times CPF \times ASF \times ED/AT \times FAH}$$

Where:

RISK <sub>inh-res</sub>	= Residential inhalation cancer risk
DOSE <sub>air</sub>	= Daily inhalation dose (milligrams/kilogram [mg/kg]-day)
CPF	= Inhalation cancer potency factor (mg/kg-day <sup>-1</sup> )
ASF	= Age sensitivity factor for a specified age group (unitless)
ED	= Exposure duration (in years) for a specified age group
AT	= Averaging time for lifetime cancer risk (years)
FAH	= Fraction of time spent at home (unitless)

The inhalation risk was calculated using the OEHHA 2015 recommended default values for these parameters:

CPF	= 1.10
ASF	= 10 for 3rd trimester of pregnancy to age 2, 3 for age 2 to 16, 1 for age 16 to 70
ED	= 0.25 years for 3rd trimester coupled with 0.75 years for age 0 to 2 (for exposure beginning in third trimester) and 3 years for all other age cohorts. Because the annual average concentrations derived by AERMOD already account for the construction schedule and duration of exposure, exposure is assumed to be the entire calendar year for the purposes of this calculation.
AT	= 70 years
FAH	= 0.85 for 3rd trimester of pregnancy to age 2, 0.72 for ages 2 to 16, 0.73 for ages 16 to 70

The daily inhalation dose is defined as:

$$\mathbf{DOSE_{air} = C_{air} \times \{BR/BW\} \times A \times EF \times 10^{-6}}$$

Where:

DOSE <sub>air</sub>	= Dose through inhalation (mg/kg-day)
C <sub>air</sub>	= Concentration in air (µg/m <sup>3</sup> )
{BR/BW}	= Daily Breathing rate normalized to body weight (Liters/kg body weight - day)
A	= Inhalation absorption factor (unitless)
EF	= Exposure frequency (unitless), days/365 days
10 <sup>-6</sup>	= Micrograms to milligrams conversion, liters to cubic meters conversion

The daily inhalation dose was calculated using OEHHA 2015 recommended default values for these parameters:

C <sub>air</sub>	= Concentration as calculated from AERMOD
{BR/BW}	= OEHHA derived method (i.e. 95 <sup>th</sup> percentile) estimates (361 for 3rd trimester of pregnancy, 1090 for age 0 to 2, 861 for age 2 to 9, 745 for age 2 to 16, 335 for age 16 to 30, and 290 for age 16-70)
A	= 1
EF	= 0.96 (350 days/365 days in a year for a resident)

To express the cancer risk results in terms of excess cases per million, the  $RISK_{inh-res}$  values were multiplied by one million.

## 6 HEALTH RISK ANALYSIS RESULTS

### 1-hour NO<sub>2</sub>

Results of the 1-hour NO<sub>2</sub> modeling analysis based on emissions resulting from the Project are summarized in Table 3. Isopleth (concentration) maps for the MEIR at each Project Component are presented in Figures 4, 5, and 6. As shown in Table 3, the Project's impacts to 1-hour NO<sub>2</sub> concentration at the MEIR during the construction phase of the project is 141.20 µg/m<sup>3</sup> in 2023 at the building located approximately 221 feet southwest of Estrella Substation. The project contribution added to the background 1-hour NO<sub>2</sub> concentration is 207 µg/m<sup>3</sup>, which is below the CAAQS standard for 1-hour NO<sub>2</sub> of 339 µg/m<sup>3</sup>.

**Table 3. 1-hour NO<sub>2</sub> Modeling Results**

Construction Year	Project Component	X (UTM)	Y (UTM)	Maximum Project Contribution (µg/m <sup>3</sup> )	Background 1-hour NO <sub>2</sub> Concentration (µg/m <sup>3</sup> ) <sup>1</sup>	Total predicted Concentration during Project Construction (µg/m <sup>3</sup> )	Below CAAQS? (Y/N)
2023 (MEIR)	Substation	717225.77	3946014	141.20	65.80	207.00	Y
2022	Reconductoring	709758.62	3947446.6	119.51	65.80	185.31	Y
2023	70 kV Line	717152.5	3947165	105.04	65.80	170.84	Y

Notes: µg/m<sup>3</sup> = micrograms per cubic meter

<sup>1</sup> The background concentration is based on the 3-year average (2018 to 2020) of the highest hourly NO<sub>2</sub> concentration from the Atascadero Monitoring Station (Site ID 6078002) which is located at 35.49453, -120.666, approximately 17 kilometers southwest of the Proposed Estrella Substation location (EPA 2021a).

As demonstrated in Figures 4 through 6 and in Table 3, the Project's impacts at sensitive receptor locations would be less than the CAAQS standard and would not expose sensitive receptors to harmful levels of NO<sub>2</sub>. Therefore, the impacts to public health risk from construction of the Project are less than significant.

The maximum ground level concentration (GLC<sub>max</sub>) at other locations modeled (the areas outside the immediate project area) could exceed the values listed in Table 3; however, the GLC<sub>max</sub> impacts would be within the Project temporary work areas and access to the public would be restricted. Since potential on-site worker exposure values are available, occupational standards are discussed herein to evaluate potential on-site construction worker impacts, for disclosure purposes. For on-site workers, standards related to general industry, agriculture, construction, and maritime operations apply. There are several agencies with NO<sub>2</sub> permissible exposure limit (PEL) ceiling or short-term exposure limits. OSHA has a ceiling PEL of 5 ppm, Cal/OSHA has a short-term exposure PEL of 1 ppm, and the NIOSH has a short-term exposure REL of 1 ppm (OSHA 2019). The GLC<sub>max</sub> for the Project is 0.18 ppm, which when added to the estimated background concentration, results in a total concentration of 0.22 ppm that on-site workers could potentially be exposed to on an hourly basis. Based on these modeled values, on-site worker impacts would not exceed any applicable occupational standards. Modeled results at locations where off-site workers could potentially be exposed are below the CAAQS of 0.18 ppm.

Additionally, the GLC<sub>max</sub> attributable to the Project does not exceed the CAAQS Standard of 0.18 ppm based on CARB's convention for rounding ambient air quality data. Certain air districts do not require inclusion of background criteria pollutants to respiratory health effects for HRAs so the approach of

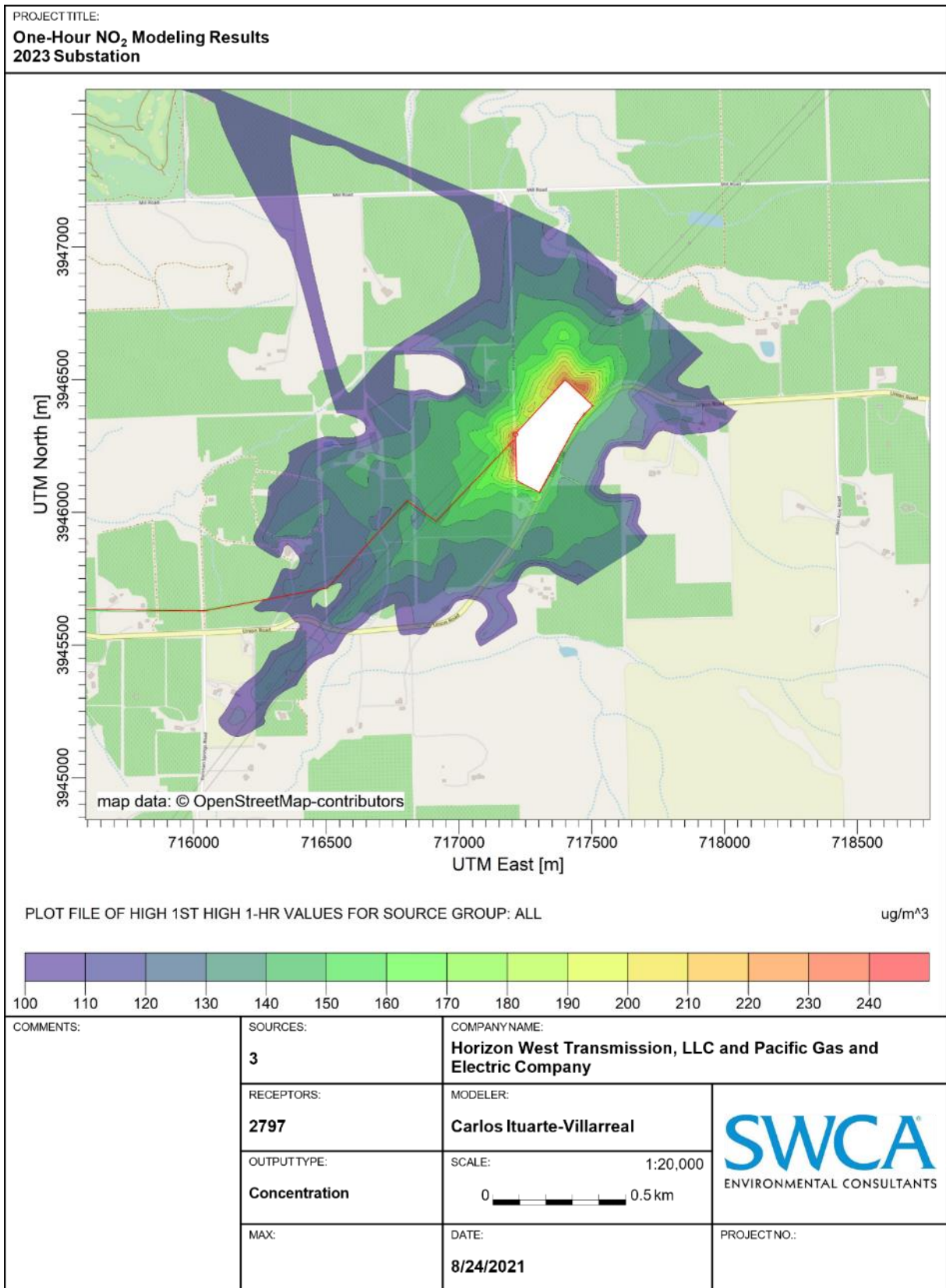


Figure 4 1-hour NO<sub>2</sub> Modeling Results - Substation



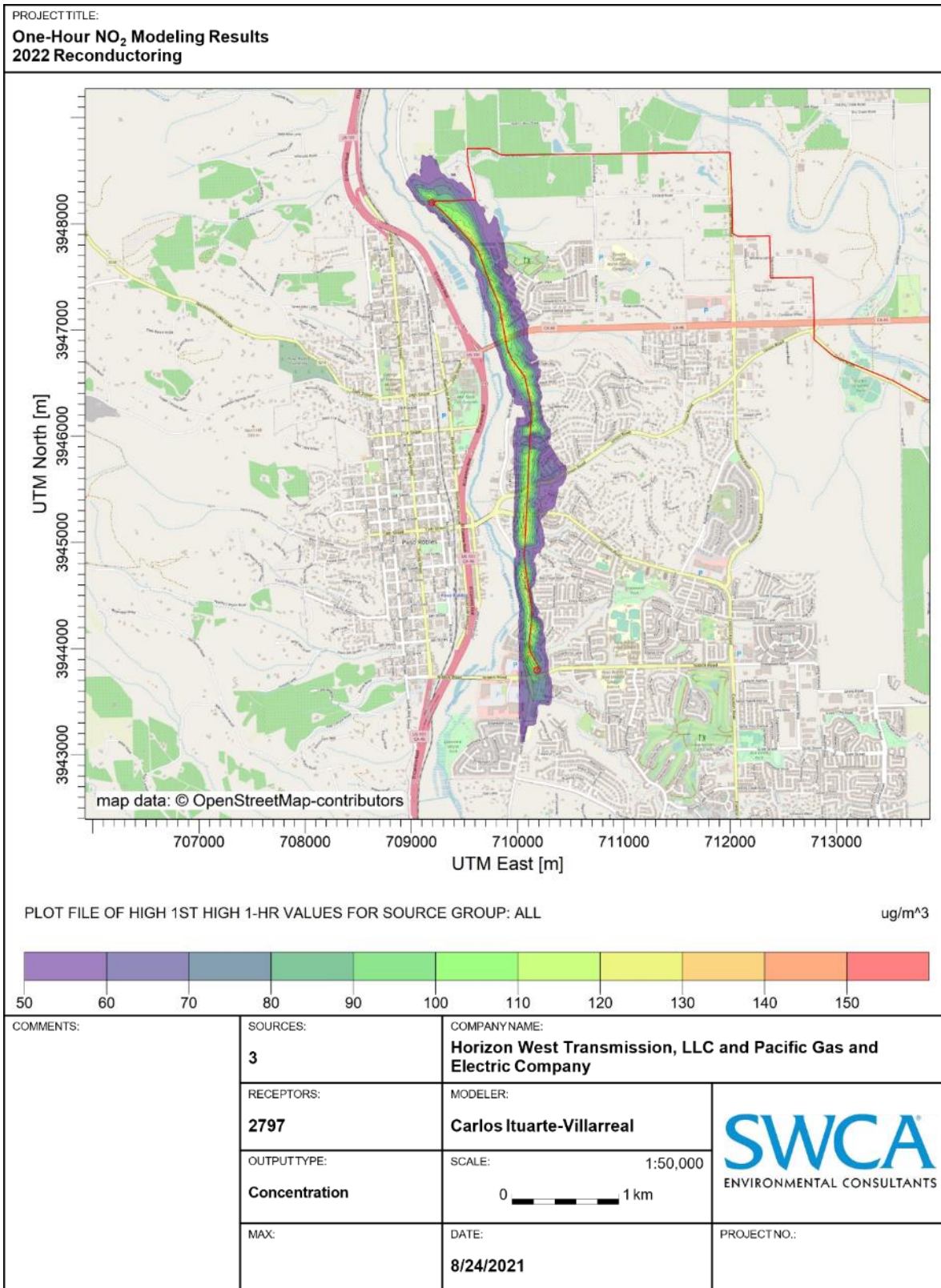


Figure 5 1-hour NO<sub>2</sub> Modeling Results – Reconductoring

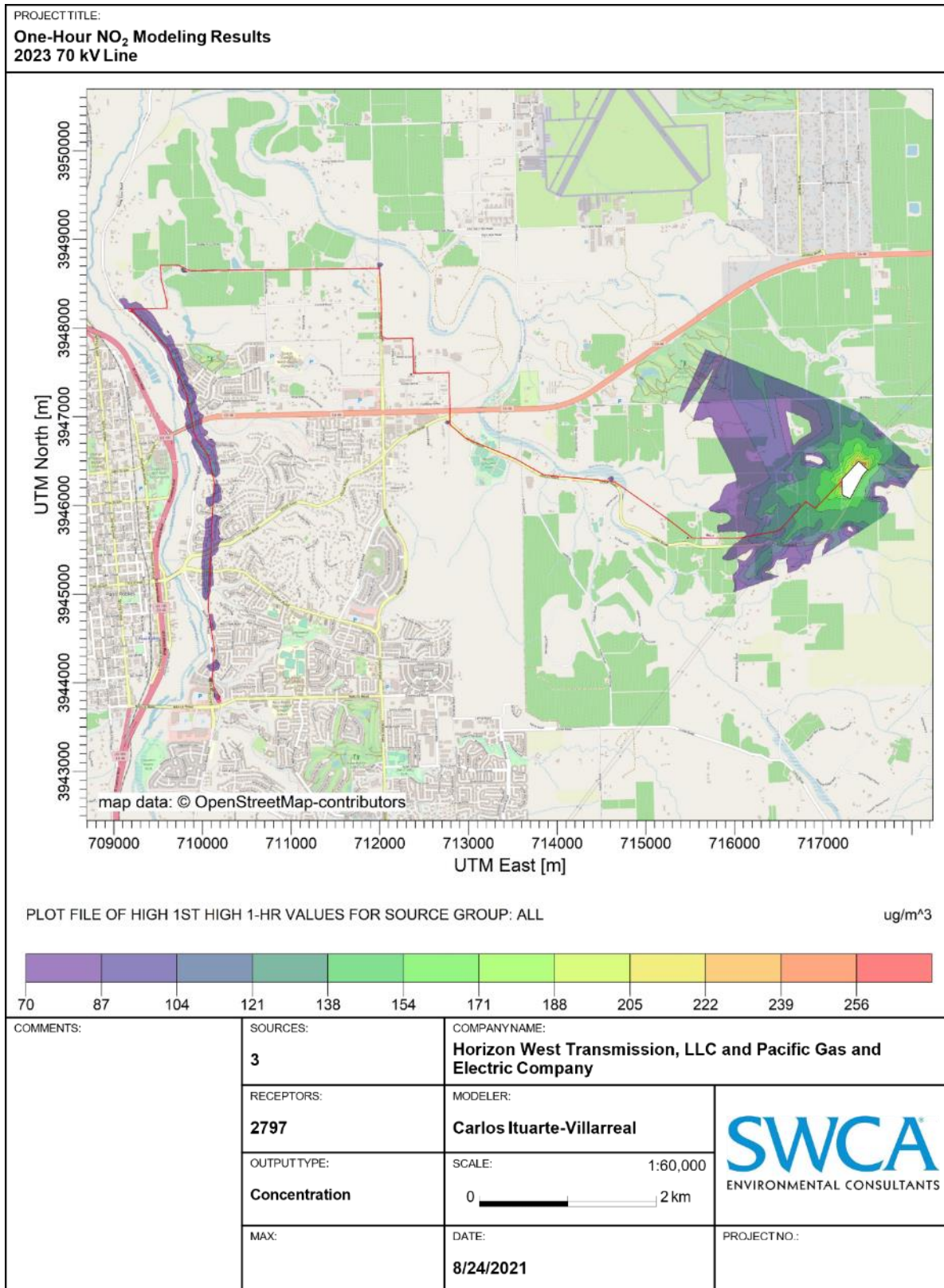


Figure 6 1-hour NO<sub>2</sub> Modeling Results – 70 kV Line



including background concentrations for this evaluation is conservative (CARB 2021c; BAAQMD 2016). In addition, CARB’s meteorological dataset does not include the AERMET “adjust\_u\*” processing option which adjusts the surface friction velocity for low wind speed stable conditions. This meteorological data processing option generally reduces one-hour NO<sub>2</sub> impacts drastically; therefore, the use of CARB’s preprocessed meteorological dataset is conservative. A more detailed summary of modeled results is included in Appendix C. In conclusion, there are no significant impacts to sensitive receptors or off-site workers, and because impacts within the project area (which may slightly exceed the CAAQS) are below occupational standards, no significant impacts are anticipated for on-site workers.

**Acute DPM Health Index**

The spatial distributions of 1-hour DPM concentrations resulting from the Project construction are presented in Figures 7, 8, and 9 for the MEIR at each Project Component. Non-cancer risk resulting from acute exposure to construction DPM are presented in Table 4. As shown in Table 4, the Project’s impacts to 1-hour DPM concentration at the MEIR during the construction phase of the project is 10.02 µg/m<sup>3</sup> in 2023 at the building located approximately 221 feet southwest of Estrella Substation. Risks are presented in terms of HI, which is derived from the ratio of the concentration of DPM at the receptor over the REL. There is no specific monitoring data available to determine background concentrations of acute DPM available, so background concentrations are estimated based on 8 percent of the representative 3-year average PM<sub>2.5</sub> maximum daily concentration. This is simply an estimate based on CARB data indicating DPM comprises about eight percent of PM<sub>2.5</sub> in outdoor air as a statewide average (CARB 2021b). However, it should be understood that DPM levels vary regionally due to non-uniform distribution of sources throughout the state.

**Table 4. 1-hour DPM Modeling Results**

Construction Year	Project Component	X (UTM)	Y (UTM)	Maximum Project Contribution (µg/m <sup>3</sup> )	Background 1-hour DPM Concentration (µg/m <sup>3</sup> ) <sup>1</sup>	Total Concentration (µg/m <sup>3</sup> )	REL (µg/m <sup>3</sup> )	HI
2023 (MEIR)	Substation	717225.77	3946014	10.024	1.872	11.90	19	0.6
2022	Reconductoring	709758.62	3947446.6	5.819	1.872	7.69	19	0.4
2023	70 kV Line	717152.5	3947165	4.390	1.872	6.26	19	0.3

Notes: µg/m<sup>3</sup> = micrograms per cubic meter

<sup>1</sup> The background concentration is based on the 3-year average (2018, 2019, and 2021) of the highest hourly PM<sub>2.5</sub> concentration from the Atascadero Monitoring Station (Site ID 6078002) which is located at 35.49453, -120.666, approximately 17 kilometers southwest of the Proposed Estrella Substation location (EPA 2021b). These concentrations were multiplied by 0.08 to estimate DPM concentration. Exceptional events are excluded and the monitoring data from 2020 indicated unusually high PM<sub>2.5</sub> concentrations compared with other years, so it was excluded from determination of background concentrations based on professional judgement.

As demonstrated in Figures 7 through 9 and in Table 4, the Project’s construction impacts would have a HI less than 1 at the MEIR, which indicates that Project would not expose sensitive receptors of acutely harmful levels of DPM. Therefore, the impacts to public health risk from construction of the Project are less than significant.

The GLC<sub>max</sub> at any location modeled (the area outside the immediate project area) occurs within the temporary project work areas where public access would be limited. Since potential on-site worker exposure values are available, 8-hour occupational standards are discussed herein to evaluate potential on-site construction worker impacts. There are a limited number of established standards for acuter DPM exposure. The Mine Safety and Health Administration’s standard for a miner’s personal exposure to DPM is that DPM exposure must not exceed 160 µg/m<sup>3</sup> (as total carbon) when measured as an 8-hour time-weighted average (OSHA 2013). More recently, as part of the European Union’s Carcinogen and Mutagen Directive, which requires employers to eliminate or otherwise minimize exposure of workers to

cancer-causing chemicals, an 8-hour limit value of  $50 \mu\text{g}/\text{m}^3$  as elemental carbon (which makes up a significant portion of DPM) was established (OSHWiki Contributors 2020). The  $\text{GLC}_{\text{max}}$  for the Project is  $26.30 \mu\text{g}/\text{m}^3$ , which when added to the estimated background concentration results in a total concentration

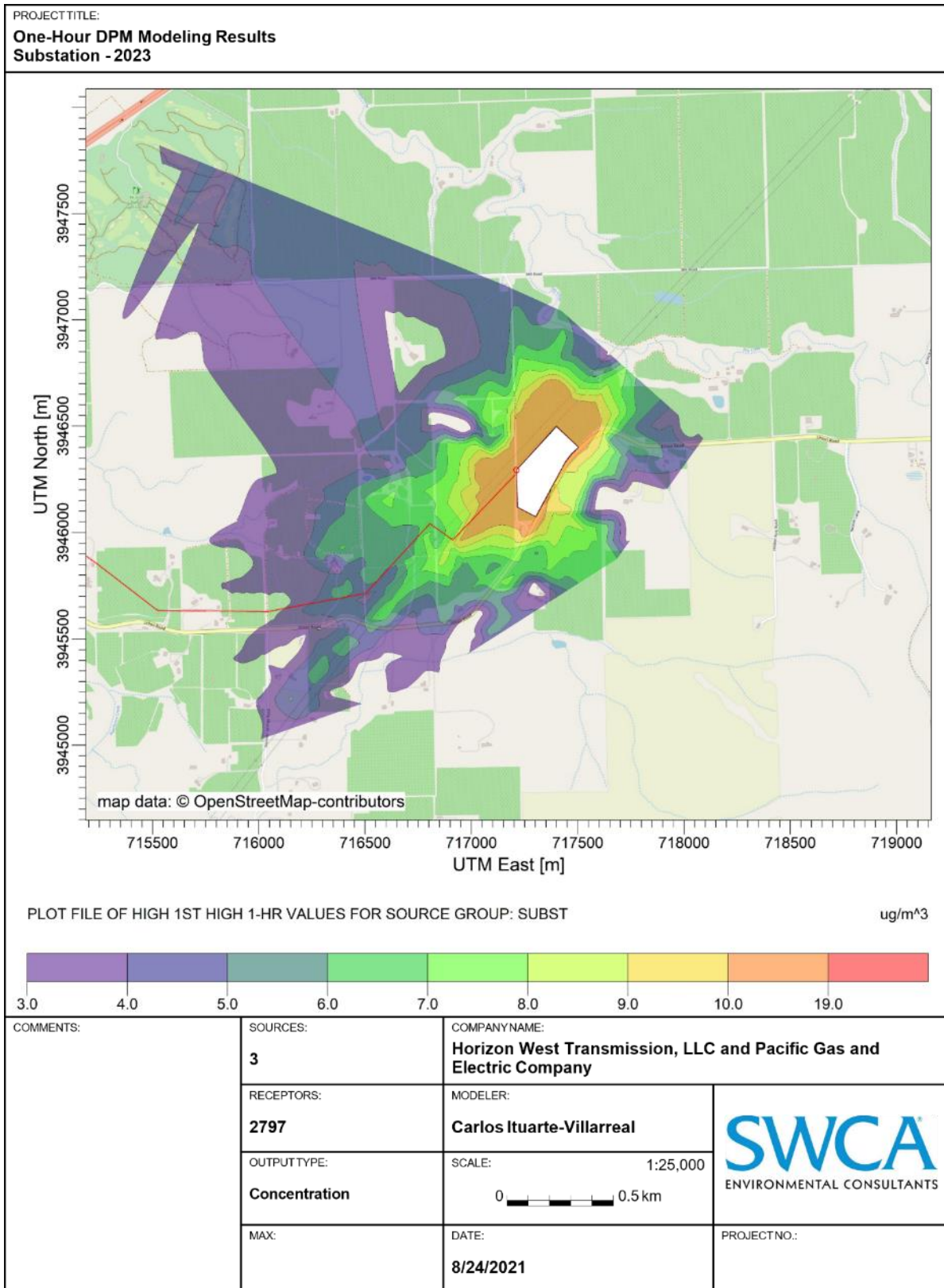


Figure 7 1-hour DPM Modeling Results – Substation

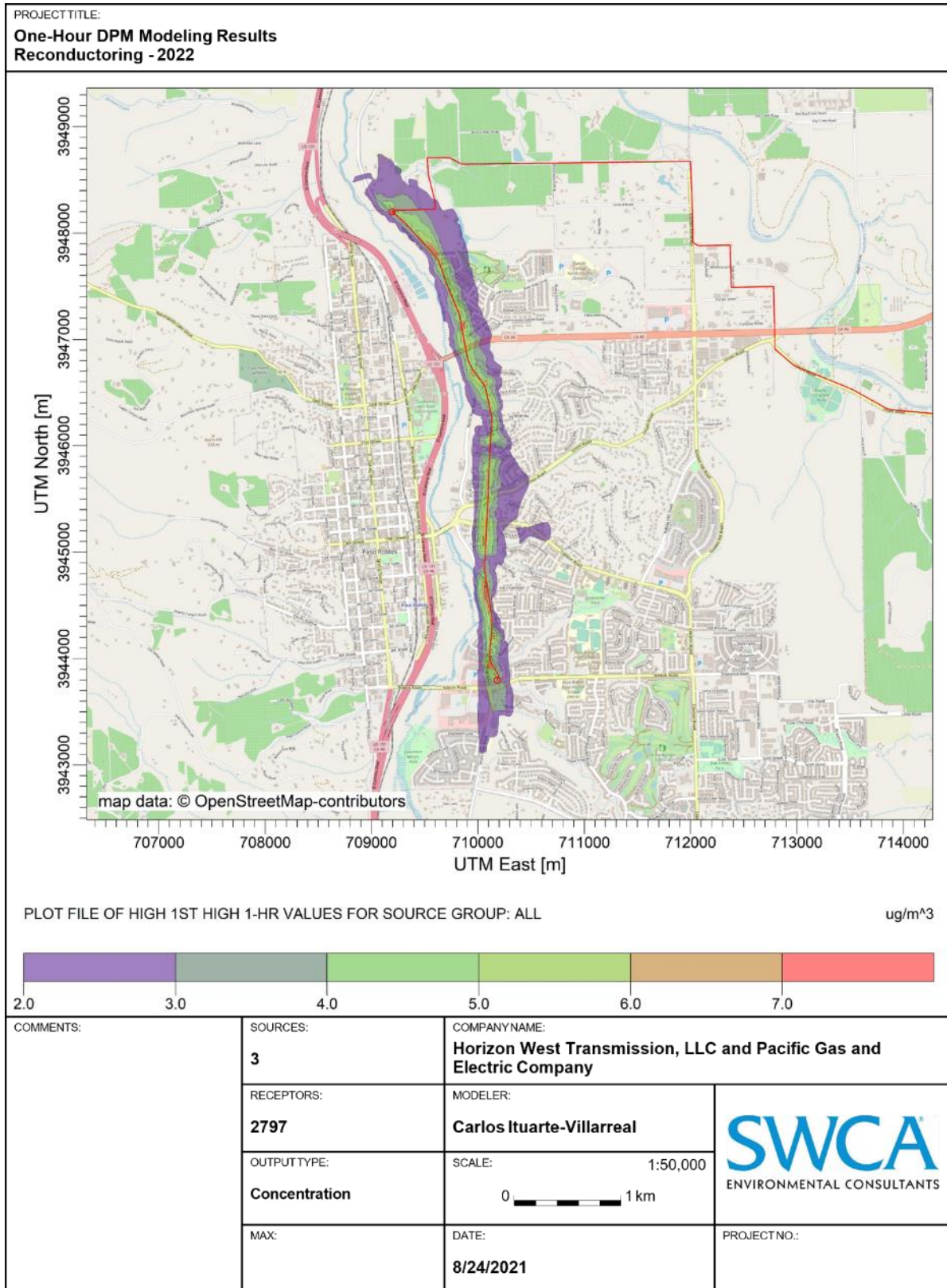


Figure 8 1-hour DPM Modeling Results – Reconductoring



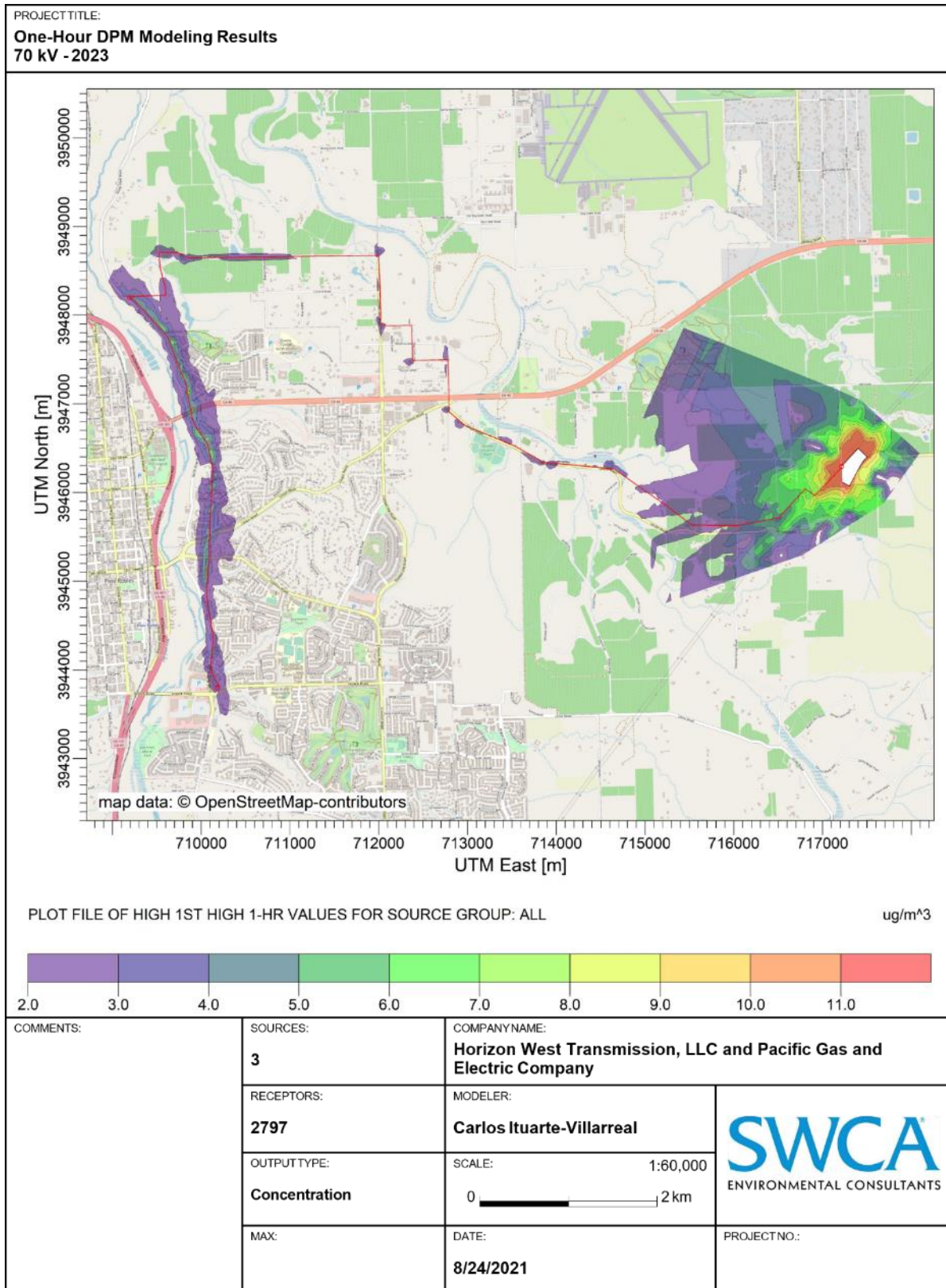


Figure 9 1-hour DPM Modeling Results – 70 kV Line

of 28.17  $\mu\text{g}/\text{m}^3$  that on-site workers could potentially be exposed to on an hourly basis. Based on these modeled values, it is clear that this level of exposure would not exceed 8-hour standards. Modeled results at locations where off-site workers could potentially be exposed are below the HI=1 threshold. A more detailed summary of modeled results are included in Appendix C. In conclusion, there are no significant impacts to sensitive receptors or off-site workers, and because impacts within the project area are below occupational standards no significant impacts are anticipated for on-site workers.

### Chronic DPM Health Index

The spatial distributions of annual average DPM concentrations resulting from the Project construction are presented in Figures 10, 11, and 12 for the MEIR at each Project Component. Non-cancer risk resulting from chronic exposure to construction DPM are presented in Table 5. Since the Project is temporary, this evaluation is for disclosure purposes but has little relevance to residential receptors. However, since modeling results are available from the cancer risk assessment, the results are included. As shown in Table 5, the Project’s impacts to annual DPM concentration at the MEIR during the construction phase of the project is 0.031  $\mu\text{g}/\text{m}^3$  in 2022 at the residence approximately 65 feet east of the reconductoring segment. Risks are presented in terms of HI, which is derived from the ratio of the concentration of DPM at the receptor over the REL. There is no specific monitoring data available to determine background concentrations of annual average DPM concentration, so background concentrations are estimated based on 8 percent of the representative 3-year average  $\text{PM}_{2.5}$  annual average concentration. This is an estimate based on CARB estimates that DPM comprises about 8 percent of  $\text{PM}_{2.5}$  in outdoor air as a statewide average (CARB 2021b). However, it should be understood that DPM levels vary regionally due to non-uniform distribution of sources throughout the state.

**Table 5. Chronic DPM Modeling Results**

Construction Year	Project Component	X (UTM)	Y (UTM)	Maximum Project Contribution ( $\mu\text{g}/\text{m}^3$ )	Background annual DPM Concentration ( $\mu\text{g}/\text{m}^3$ ) <sup>1</sup>	Total Concentration ( $\mu\text{g}/\text{m}^3$ )	REL ( $\mu\text{g}/\text{m}^3$ )	HI
2022	Substation	717225.77	3946014	0.006	0.456	0.462	5	0.1
2022 (MEIR)	Reconductoring	709758.62	3947446.6	0.031	0.456	0.487	5	0.1
2023	70 kV Line	714423.44	3946298.4	0.019	0.456	0.475	5	0.1

Notes:  $\mu\text{g}/\text{m}^3$  = micrograms per cubic meter

<sup>1</sup> The background concentration is based on the 3-year average (2018, 2019, and 2021) of the annual average  $\text{PM}_{2.5}$  concentration from the Atascadero Monitoring Station (Site ID 6078002) which is located at 35.49453, -120.666, approximately 17 kilometers southwest of the Proposed Estrella Substation location (EPA 2021b). These concentrations were multiplied by 0.08 to estimate DPM concentration. Exceptional events are excluded and the monitoring data from 2020 indicated unusually high  $\text{PM}_{2.5}$  concentrations compared with other years, so it was excluded from determination of background concentrations based on professional judgement.

As demonstrated in Figures 10 through 12 and in Table 5, the Project’s construction impacts would have a HI less than 1 at the MEIR, which indicates that Project would not expose sensitive receptors of chronically harmful levels of DPM. Therefore, the impacts to public health risk from construction of the Project are less than significant.

The  $\text{GLC}_{\text{max}}$  at any location modeled (the area outside the immediate project area) is 0.114  $\mu\text{g}/\text{m}^3$ , which when combined with the estimated annual DPM concentration results in a maximum annual exposure of 0.576  $\mu\text{g}/\text{m}^3$ . The HI would be approximately 0.115  $\mu\text{g}/\text{m}^3$ , which is less than significance thresholds for sensitive receptors and off-site workers, and therefore, no significant impacts to sensitive receptors, off-site workers, or on-site workers are anticipated. A more detailed summary of modeled results is included in Appendix C.

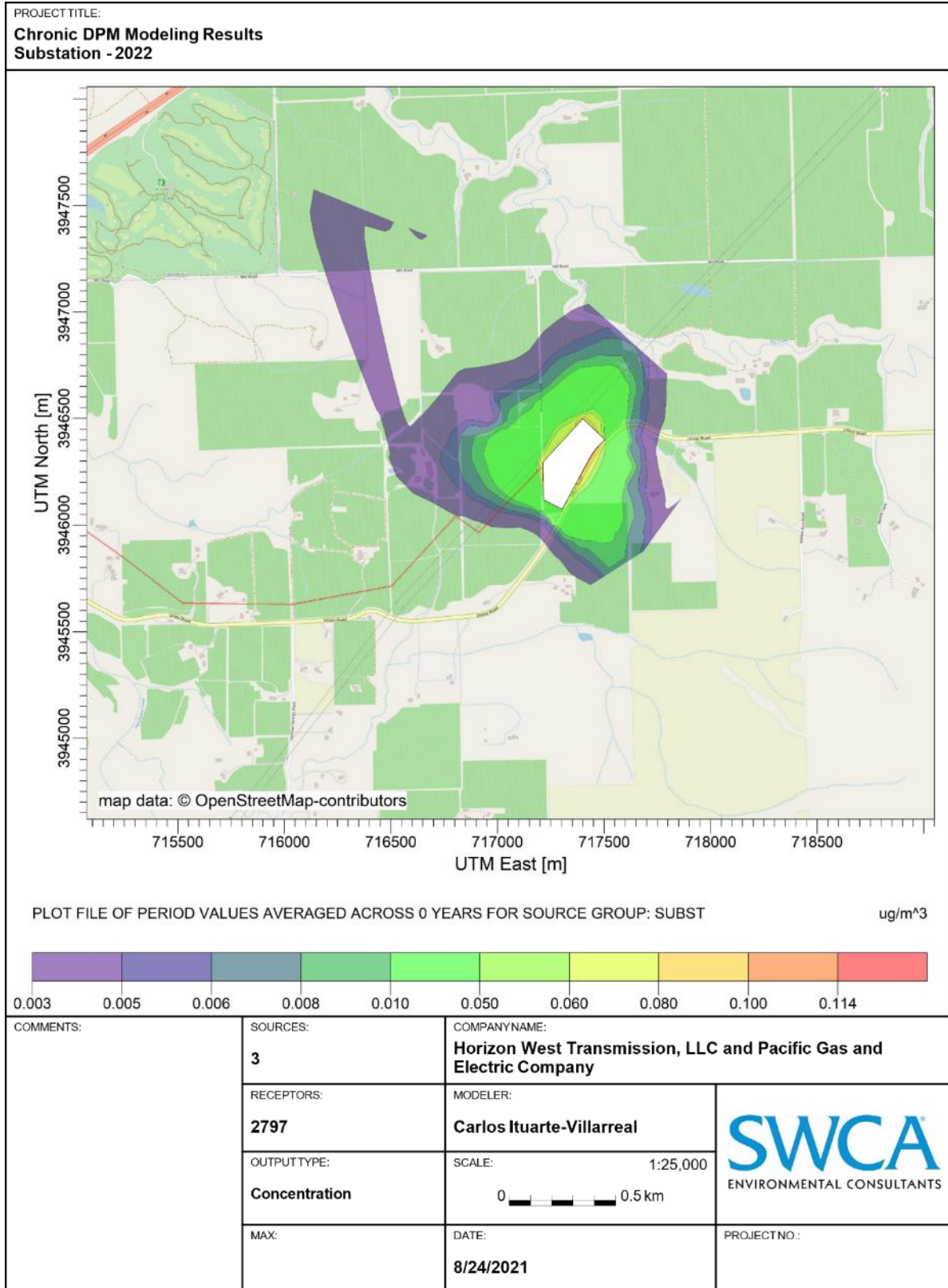


Figure 10 Chronic DPM Modeling Results – Substation



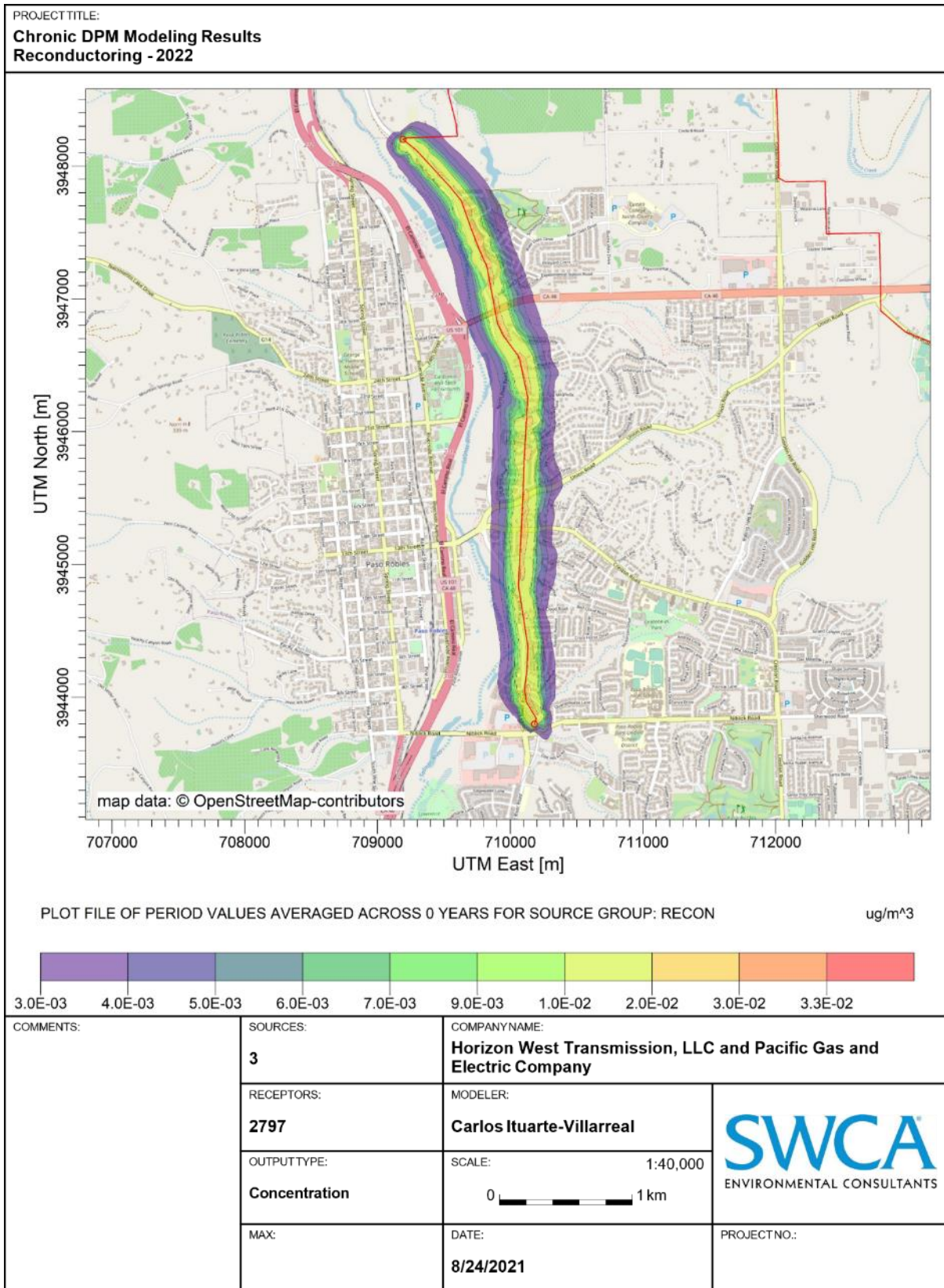


Figure 11 Chronic DPM Modeling Results – Reconductoring



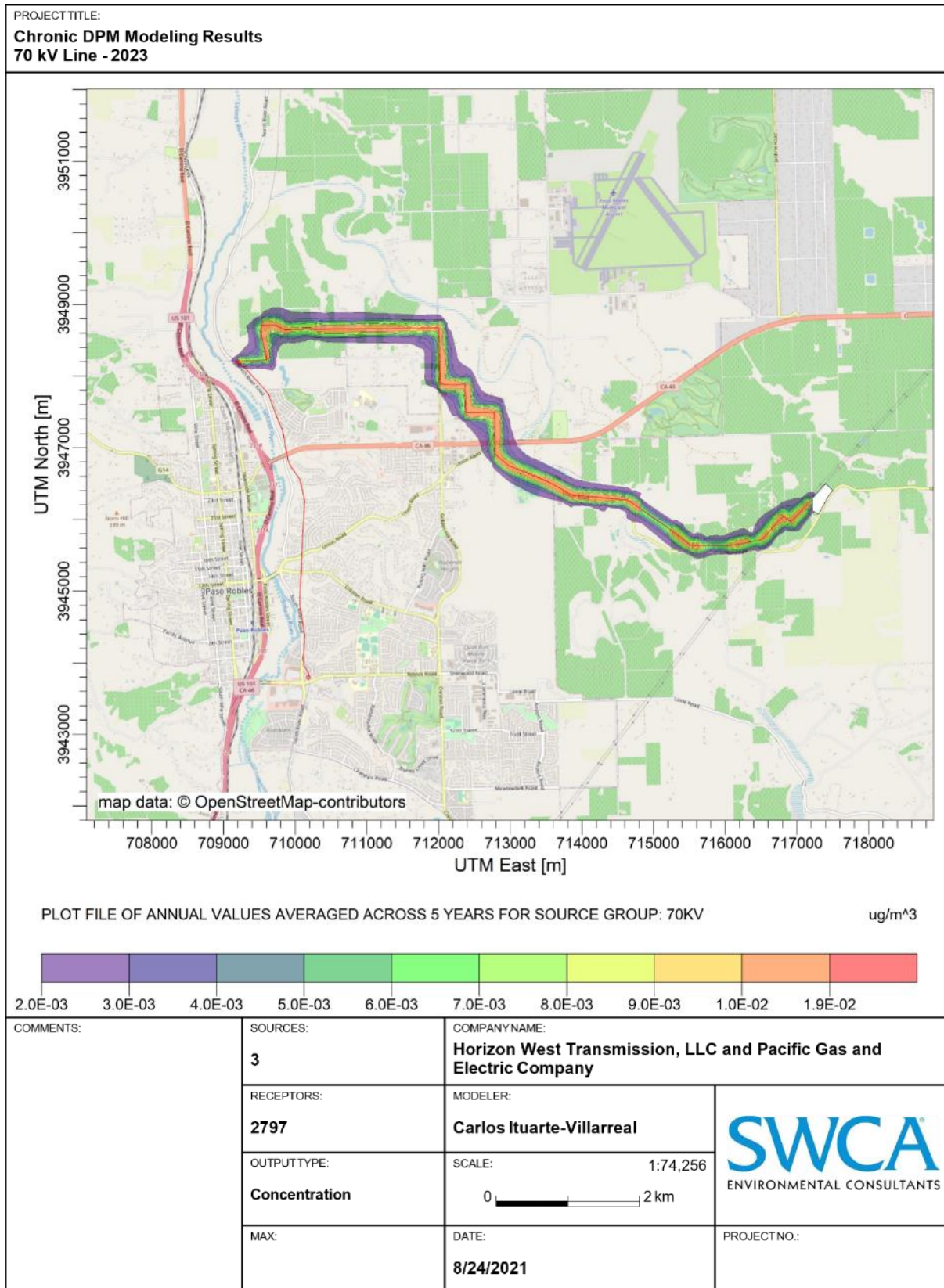


Figure 12 Chronic DPM Modeling Results – 70 kV Line

### Excess Cancer Risk

The spatial distributions of excess cancer risk resulting from the Project construction are presented in Figure 13 for individuals with exposure to construction impacts beginning during the third trimester of pregnancy through 2 years old. The excess cancer risks to off-site receptors due to Project construction are calculated assuming exposure during the entire calendar year to the emission rates presented in Appendix B for the respective calendar year.

Total excess cancer risks over 70-years are determined by adding the risks from each calendar year at each off-site sensitive receptor location. A more detailed breakdown of the risk calculations is included in Appendix D. The excess cancer risk attributable to Project construction at the off-site MEIR receptor is listed in Table 6 for each age cohort. As shown in Table 6, construction of the project would result in a maximum excess cancer risk of approximately 5.12 in a million at a residence located approximately 65 feet east of the reconductoring segment. This level of risk would occur if an individual’s exposure began in the third trimester of pregnancy and lasted for the duration of the Project.

**Table 6. Excess Cancer Risk**

Project Component	Age Cohort	X (UTM)	Y (UTM)	Excess Cancer Risk (cases per million)
Substation	Third Trimester to 0<2 Exposure	717225.77	3946014.01	1.15
Substation	2<9 Exposure	717225.77	3946014.01	0.26
Substation	2<16 Exposure	717225.77	3946014.01	0.22
Substation	16<30 Exposure	717225.77	3946014.01	0.03
Substation	16<70 Exposure	717225.77	3946014.01	0.02
Reconductoring	Third Trimester to 0<2 Exposure (MEIR)	709758.62	3947446.58	5.12
Reconductoring	2<9 Exposure	709758.62	3947446.58	1.17
Reconductoring	2<16 Exposure	709758.62	3947446.58	1.01
Reconductoring	16<30 Exposure	709758.62	3947446.58	0.15
Reconductoring	16<70 Exposure	709758.62	3947446.58	0.13
70 kV Line	Third Trimester to 0<2 Exposure	714423.44	3946298.36	3.04
70 kV Line	2<9 Exposure	714423.44	3946298.36	0.61
70 kV Line	2<16 Exposure	714423.44	3946298.36	0.53
70 kV Line	16<30 Exposure	714423.44	3946298.36	0.08
70 kV Line	16<70 Exposure	714423.44	3946298.36	0.07

Notes: Excess cancer risk is presented in terms of number of excess cancer cases per million.

Because the Project-level threshold of significance is 10 cases per million, Project construction would not result in significant impacts to excess cancer risk.

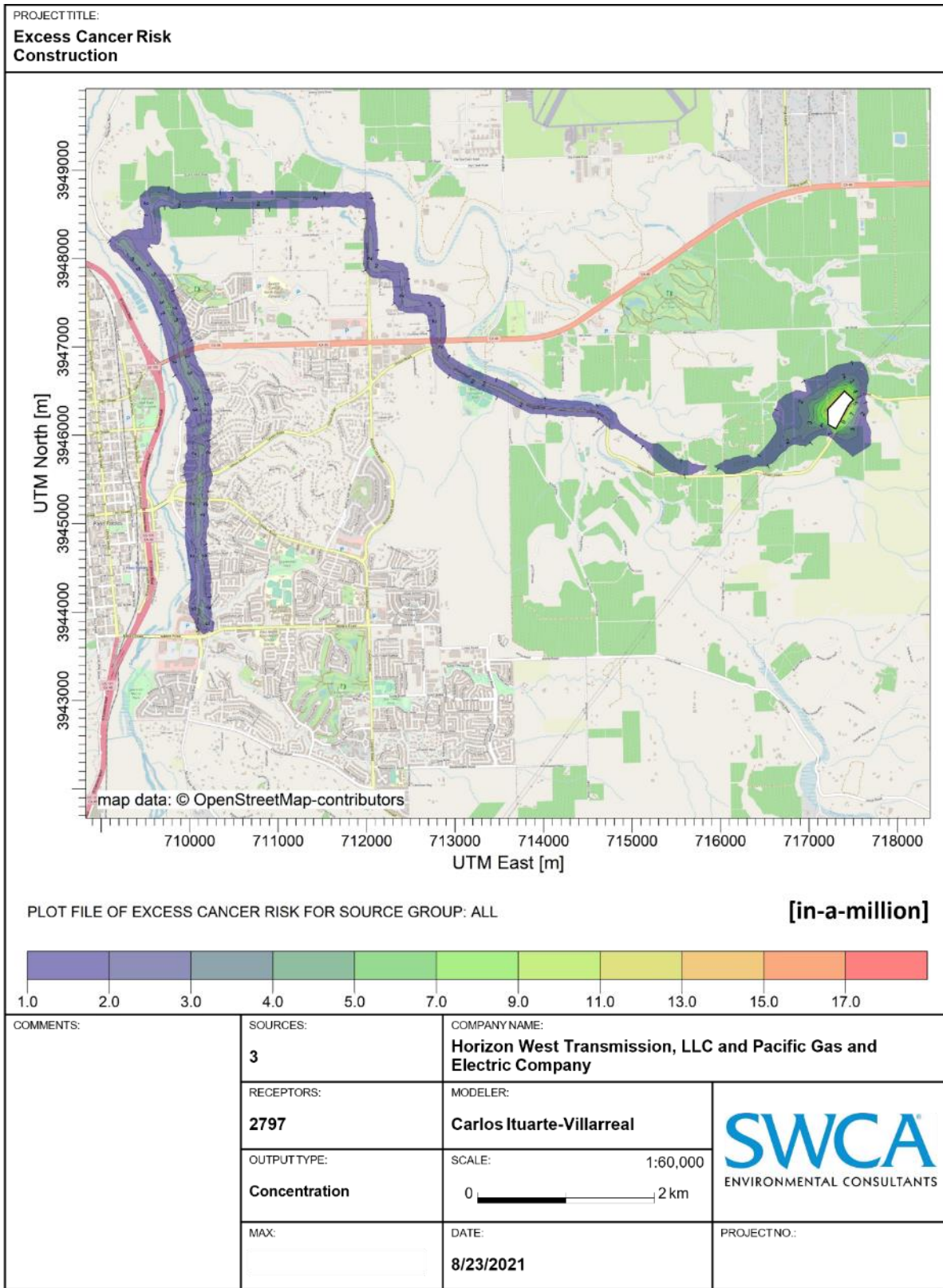


Figure 13 Excess Cancer Risk

## 7 MEASURES TO REDUCE PROJECT IMPACTS

The mitigation measures from the SLOAPCD's CEQA guidelines will be implemented including prohibition of diesel idling within 1,000 feet of sensitive receptors as well as ensuring that staging and queuing areas are not located within 1,000 feet of sensitive receptors, and on-road equipment idling will be restricted. Additionally, signs that specify the no-idling requirements will be posted and enforced at the construction site. For construction occurring more than 1,000 feet from sensitive receptors, idling will be limited for on-road vehicles and off-road diesel equipment through compliance with a 5-minute idling restriction, and signs specifying the 5-minute idling limit will be posted at designated queuing areas and job sites (SLOAPCD 2012). Additionally, at a minimum, the off-road equipment fleet shall meet the CARB off-road emissions average for each calendar year (Horizon Water and Environment 2020).

## 8 UNCERTAINTIES

In accordance with risk assessment guidance, the following discussion summarizes the main uncertainties associated with the emissions estimation, air dispersion modeling, and risk estimation components of the HRA methodology.

### Emissions Estimates

Uncertainties exist in estimating emissions from construction equipment. Where project-specific data were not available, CalEEMod default values or conservative input assumptions were used.

### Air Dispersion Modeling

In addition to the uncertainty associated with emission estimates, uncertainty exists regarding the pollutant concentrations estimated by the air dispersion model. The limitations of the air dispersion model provide a source of uncertainty in the estimation of exposure concentrations. The methodologies implemented in the air dispersion modeling analysis use conservative assumptions and techniques to produce conservative results; thus, predicted exposure concentrations are likely to be at or above actual exposure concentrations.

The source parameters used to model emission sources add uncertainty. For all emission sources, source parameters that are either recommended as defaults or expected to produce more conservative (worst-case) results were used. Discrepancies might exist between the actual emissions characteristics of a source and its representation in the model; exposure concentrations used in this assessment represent approximate exposure concentrations. However, the results of the analysis are well below the relevant thresholds of significance, and as discussed in previous sections, the modeled variables would be expected to result in conservative estimates of impacts. For instance, the use of CalEEMod defaults is generally conservative, DPM emission rates are based on PM<sub>10</sub> rather than PM<sub>2.5</sub>, and the air dispersion modeling analysis has conservative assumptions built in, including the use of CARB's preprocessed meteorological dataset that does not use the "adjust u\*" processing option. Therefore, it is not anticipated that the Project would result in unacceptable health risks despite inherent uncertainties in air dispersion modeling.

### Background Concentrations

Background concentrations of NO<sub>2</sub> and PM<sub>2.5</sub> were determined from monitoring data at the Atascadero monitoring station (Site ID 6078002) which is located at 35.49453, -120.666, approximately 17 kilometers southwest of the Proposed Estrella Substation location. Because no DPM monitoring data is available in the analysis area, the DPM background concentration is derived based on eight percent of the PM<sub>2.5</sub> background concentrations (CARB 2021b). However, this eight percent value is a statewide average value

and DPM concentration as a percentage of PM<sub>2.5</sub> may vary (CARB 2021b). Additionally, the background concentrations are based on three-year averages of the most recent available, representative data. Actual background concentrations in any given year may vary.

### **Health Risk Analysis**

Numerous assumptions must be made to estimate human exposure to pollutants. These assumptions include parameters such as breathing rates, exposure frequency, exposure duration, and human activity patterns. While a mean value derived from scientifically defensible studies is the best estimate of central tendency, most exposure variables used in this HRA are high-end estimates. The combination of several high-end estimates used as exposure parameters may substantially overestimate chemical intake. The excess lifetime cancer risks calculated in this assessment are therefore likely to be higher than may be required to be protective of public health.

The OEHHA Cancer Potency Factor (CPF) for DPM is used to estimate cancer risks associated with exposure to diesel PM from the project and off-site emissions. However, the CPF derived by OEHHA for DPM is highly uncertain in the estimation of both response and dose. Based on epidemiological studies from U.S. non-metal miners, IARC recently reclassified diesel PM as Carcinogenic to Humans (Group 1) (Silverman et al., 2012; Attfield et al., 2012; IARC 2012). This means that the agency has determined that there is “sufficient evidence of carcinogenicity” of a substance in humans and represents the strongest weight-of-evidence rating in IARC’s carcinogen classification scheme. This determination by IARC may provide additional impetus for EPA to identify a quantitative dose/response relationship between exposure to DPM and cancer.

It is important to note that the epidemiological evidence of carcinogenicity of diesel exhaust comes from workers exposed to diesel exhaust over 20 years ago. In the last two decades DPM levels have decreased by 68 percent in California as a result of several CARB Regulations including the Reformulated Diesel Program, the Periodic self-inspection program for transit buses, heavy duty off-road diesel engine standards, along with the use of ultra-low sulfur diesel and generally improving emission control technologies (CARB 2021b). Implementation of the more stringent standards and control technologies have resulted in changes in both the emissions and the composition of the diesel exhaust (McClellan et al., 2012). For the purpose of this analysis, the Project is assumed to use the fleet average emission factors for the calendar year characteristic of project construction, a large proportion of which are higher Tier diesel engines which use various control technologies, including diesel particulate filters and oxidation catalysts to meet the higher Tier emission standards. The exhaust composition of new technology diesel engines differs from that of older diesel engines. The proportion of elemental carbon in DPM is reduced, and that of sulfates increased (Khalek et al., 2011). Also, the emissions of organic compounds, such as polycyclic aromatic hydrocarbons, aromatics, and aldehydes, are significantly reduced by new technology diesel engines (Liu et al., 2010).

Similarly, most of the data available on non-cancer health effects relate to older technology diesel engine models from the 1950s to the early 2000s including the studies identifying a lowest observed adverse effect level of 100 µg/m<sup>3</sup>, which is the basis of the TCEQ’s acute ESL (Taxell and Santonen 2017). Further studies allowing the comparison of old and new technology diesel exhaust with respect to different endpoints, including genotoxicity and inflammatory effects would be valuable (Taxell and Santonen 2017). Additionally, studies on the relevant exposure indicators for new technology diesel exhaust including consideration of the particle size distribution and different particle exposure metrics as well as comparison of the hazard per mass unit of DPM would be informative (Taxell and Santonen 2017). Updating epidemiological studies in the forthcoming decades is also needed to assess potential changes in cancer risk (Taxell and Santonen 2017).



OEHHA notes that the conservative assumptions used in a risk assessment are intended to avoid underestimation of actual risks posed by a site and are designed to err on the side of health protection (OEHHA, 2015). The estimated risks in this HRA are based primarily on a series of conservative assumptions related to predicted environmental concentrations, exposure, and chemical toxicity. The use of conservative assumptions tends to produce upper-bound estimates of risk. Although it is difficult to quantify the uncertainties associated with all the assumptions made in this risk assessment, the use of conservative assumptions is likely to result in substantial overestimates of exposure, and hence, risk.

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## **APPENDIX A – CalEEMod Output**



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Annual

**Estrella Substation and Paso Robles Area Reinforcement Project**  
**San Luis Obispo County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	7,144.00	1000sqft	164.00	7,144,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2024
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - The total area in power line the easement widths, substation temp disturbance, areas for temporary staging and access roads outside of the easement equals approximately 164 acres or a 7,144,000 square feet area

Construction Phase - Based on project schedule and description

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

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Off-road Equipment - Based on construction schedule  
Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on equipment roster for the project.

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

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Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

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Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Trips and VMT - Based on equipment roster and schedule provided

On-road Fugitive Dust - Per the user guide 9.3% silt content should be used for the San Luis Obispo region

Grading - Based on grading and material movement for the project.

Vehicle Trips - Unmanned operation

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - No consumer product utilization was assumed for the project

Area Coating - No architectural coating is assumed for the project

Energy Use - Energy intensity factors scaled down to match the area occupied by the 230kV Substation Control Enclosure approximately 14 feet wide, 48 feet long, and the 70 kV Substation Control Enclosure approximately 16 feet wide and 64 feet long.

Water And Wastewater - Unmanned facility - No water use is expected

Solid Waste - No solid waste generation is expected

Construction Off-road Equipment Mitigation - At a minimum, the off-road equipment fleet shall meet the CARB off-road emissions average for that calendar year and ensure that quarterly DPM emissions are less than the SLOCAPCD significance thresholds.

Operational Off-Road Equipment - Assumes monthly inspections and an annual maintenance on the substation components. Helicopter emissions are represented as Other general industrial equipment with hp increased to 400

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
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tblAreaCoating	Area_Nonresidential_Interior	10716000	0
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	50.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstructionPhase	NumDays	3,100.00	48.00
tblConstructionPhase	NumDays	3,100.00	24.00
tblConstructionPhase	NumDays	3,100.00	24.00
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tblConstructionPhase	NumDays	3,100.00	18.00
tblConstructionPhase	NumDays	3,100.00	6.00
tblConstructionPhase	NumDays	3,100.00	6.00
tblConstructionPhase	NumDays	3,100.00	12.00







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tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	LightingElect	3.08	0.01
tblEnergyUse	NT24E	3.70	0.01
tblEnergyUse	NT24NG	6.67	0.01
tblEnergyUse	T24E	1.48	0.01
tblEnergyUse	T24NG	19.71	0.01
tblGrading	AcresOfGrading	36.00	27.00
tblGrading	AcresOfGrading	4.50	9.00
tblGrading	AcresOfGrading	9.00	18.00
tblGrading	AcresOfGrading	4.50	9.00
tblGrading	MaterialExported	0.00	828.00
tblGrading	MaterialImported	0.00	3,140.00
tblOffRoadEquipment	HorsePower	63.00	62.00
tblOffRoadEquipment	HorsePower	63.00	62.00
tblOffRoadEquipment	HorsePower	63.00	62.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00



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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
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tblOffRoadEquipment	PhaseName		70-kV Substation Steel Bus Erection
tblOffRoadEquipment	PhaseName		70-kV Substation Equip Delivery & Installation
tblOffRoadEquipment	PhaseName		230-kV Substation Cable Installation and Termination
tblOffRoadEquipment	PhaseName		70-kV Substation Foundation Construction
tblOffRoadEquipment	PhaseName		230-kV Transmission Foundation Tower Installation Remove two towers
tblOffRoadEquipment	PhaseName		Reconductoring Segment Pole Installation Transfer Distribution Pole Removal
tblOffRoadEquipment	PhaseName		230-kV Substation Foundation Construction
tblOffRoadEquipment	PhaseName		70-kV Substation Mobilization
tblOffRoadEquipment	PhaseName		230-kV Transmission Site Clean-up and Restoration
tblOffRoadEquipment	PhaseName		70-kV Power Line Site Development Mobilization

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tblOffRoadEquipment	PhaseName	Reconductoring Segment Clean-up and Restoration
tblOffRoadEquipment	PhaseName	Reconductoring Segment Site Development Mobilization
tblOffRoadEquipment	PhaseName	70-kV Power Line Clean-up and Restoration
tblOffRoadEquipment	PhaseName	230-kV Substation Steel Bus Erection
tblOffRoadEquipment	PhaseName	230-kV Substation Install Yard Rock
tblOffRoadEquipment	PhaseName	70-kV Substation Steel Bus Erection
tblOffRoadEquipment	PhaseName	230-kV Substation Transformer & Equip Delivery & Installation
tblOffRoadEquipment	PhaseName	230-kV Substation Transformer & Equip Delivery & Installation
tblOffRoadEquipment	PhaseName	230-kV Substation Remaining Equipment Delivery and Install
tblOffRoadEquipment	PhaseName	230-kV Transmission Foundation Tower Installation Remove two towers
tblOffRoadEquipment	PhaseName	230-kV Transmission Foundation Tower Installation Remove two towers
tblOffRoadEquipment	PhaseName	230-kV Transmission Foundation Tower Installation Remove two towers
tblOffRoadEquipment	PhaseName	230-kV Transmission Conductor
tblOffRoadEquipment	PhaseName	230-kV Transmission Conductor
tblOffRoadEquipment	PhaseName	70-kV Substation Equip Delivery & Installation
tblOffRoadEquipment	PhaseName	70-kV Substation Control Enclosure Delivery and Install
tblOffRoadEquipment	PhaseName	230-kV Substation Testing and Commissioning
tblOffRoadEquipment	PhaseName	70-kV Substation Cable Installation and Termination
tblOffRoadEquipment	PhaseName	70-kV Power Line Pole Tower Installation
tblOffRoadEquipment	PhaseName	70-kV Power Line Pole Tower Installation
tblOffRoadEquipment	PhaseName	70-kV Substation Install Yard Rock
tblOffRoadEquipment	PhaseName	70-kV Cleanup and Restoration
tblOffRoadEquipment	PhaseName	70-kV Substation Testing and Commissioning

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tblOffRoadEquipment	PhaseName	70-kV Power Line Conductor Installation
tblOffRoadEquipment	PhaseName	70-kV Power Line Conductor Installation
tblOffRoadEquipment	PhaseName	70-kV Power Line Conductor Installation
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tblOffRoadEquipment	PhaseName	Reconductoring Segment Pole Installation Transfer Distribution Pole Removal
tblOffRoadEquipment	PhaseName	230-kV Substation Access Roads
tblOffRoadEquipment	PhaseName	230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization
tblOffRoadEquipment	PhaseName	230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization
tblOffRoadEquipment	PhaseName	Reconductoring Segment Conductor Installation
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tblOffRoadEquipment	PhaseName	70-kV Power Line Conductor Installation
tblOffRoadEquipment	PhaseName	70-kV Power Line Conductor Installation
tblOffRoadEquipment	PhaseName	Reconductoring Segment Conductor Installation
tblOffRoadEquipment	PhaseName	Reconductoring Segment Conductor Installation
tblOffRoadEquipment	PhaseName	230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization
tblOffRoadEquipment	PhaseName	230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization
tblOffRoadEquipment	PhaseName	230-kV Substation Install Yard Rock
tblOffRoadEquipment	PhaseName	70-kV Substation Install Yard Rock

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tblOffRoadEquipment	PhaseName		230-kV Substation Fence and Gate Installation
tblOffRoadEquipment	PhaseName		70-kV Substation Foundation Construction
tblOffRoadEquipment	PhaseName		70-kV Substation Ground Grid Conduit Installation
tblOffRoadEquipment	PhaseName		230-kV Substation Ground Grid Conduit Installation
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	5.30
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	1.00
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tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	0.50
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	5.00
tblOffRoadEquipment	UsageHours	8.00	6.00











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tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	13.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	12.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	2.00
tblOperationalOffRoadEquipment	OperHorsePower	88.00	400.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblSolidWaste	SolidWasteGenerationRate	8,858.56	0.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	0.91
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tblTripsAndVMT	VendorTripLength	5.00	13.00

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tblTripsAndVMT	VendorTripLength	5.00	13.00
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tblTripsAndVMT	VendorTripNumber	1,171.00	45.00
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tblTripsAndVMT	VendorTripNumber	1,171.00	31.00
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tblTripsAndVMT	WorkerTripLength	13.00	8.14

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tblTripsAndVMT	WorkerTripLength	13.00	8.45
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tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00



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tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
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tblTripsAndVMT	WorkerTripNumber	5.00	16.00
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tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	32.00
tblTripsAndVMT	WorkerTripNumber	5.00	16.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	38.00
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tblTripsAndVMT	WorkerTripNumber	30.00	26.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	18.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	28.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	22.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	1,652,050,000.00	0.00

**2.0 Emissions Summary**

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**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.4289	4.1016	2.9141	0.0103	0.1691	0.1491	0.3181	0.0621	0.1372	0.1993	0.0000	917.1974	917.1974	0.2521	0.0000	923.4994
2023	0.5026	4.2215	3.6566	0.0134	0.1150	0.1462	0.2612	0.0298	0.1346	0.1644	0.0000	1,197.1108	1,197.1108	0.3256	0.0000	1,205.2501
2024	0.0361	0.3065	0.2485	8.7000e-004	7.8600e-003	0.0116	0.0194	1.7600e-003	0.0106	0.0124	0.0000	76.9161	76.9161	0.0221	0.0000	77.4685
<b>Maximum</b>	<b>0.5026</b>	<b>4.2215</b>	<b>3.6566</b>	<b>0.0134</b>	<b>0.1691</b>	<b>0.1491</b>	<b>0.3181</b>	<b>0.0621</b>	<b>0.1372</b>	<b>0.1993</b>	<b>0.0000</b>	<b>1,197.1108</b>	<b>1,197.1108</b>	<b>0.3256</b>	<b>0.0000</b>	<b>1,205.2501</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.4289	4.1016	2.9141	0.0103	0.1093	0.1491	0.2584	0.0362	0.1372	0.1734	0.0000	917.1965	917.1965	0.2521	0.0000	923.4985
2023	0.5026	4.2215	3.6566	0.0134	0.1078	0.1462	0.2539	0.0290	0.1346	0.1636	0.0000	1,197.1096	1,197.1096	0.3256	0.0000	1,205.2489
2024	0.0361	0.3065	0.2485	8.7000e-004	6.4100e-003	0.0116	0.0180	1.6000e-003	0.0106	0.0122	0.0000	76.9160	76.9160	0.0221	0.0000	77.4685
<b>Maximum</b>	<b>0.5026</b>	<b>4.2215</b>	<b>3.6566</b>	<b>0.0134</b>	<b>0.1093</b>	<b>0.1491</b>	<b>0.2584</b>	<b>0.0362</b>	<b>0.1372</b>	<b>0.1734</b>	<b>0.0000</b>	<b>1,197.1096</b>	<b>1,197.1096</b>	<b>0.3256</b>	<b>0.0000</b>	<b>1,205.2489</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	23.45	0.00	11.44	28.69	0.00	7.15	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	0.7233	0.7233
2	9-1-2022	11-30-2022	2.7929	2.7929
3	12-1-2022	2-28-2023	2.6194	2.6194
4	3-1-2023	5-31-2023	0.9644	0.9644
5	6-1-2023	8-31-2023	0.7378	0.7378
6	9-1-2023	11-30-2023	1.0499	1.0499
7	12-1-2023	2-29-2024	0.6675	0.6675
		Highest	2.7929	2.7929

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**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	27.9120	1.0900e-003	0.1202	1.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	0.2340	0.2340	6.1000e-004	0.0000	0.2493
Energy	7.7000e-004	7.0000e-003	5.8800e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	69.9728	69.9728	2.9700e-003	7.2000e-004	70.2624
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	3.4800e-003	0.0236	0.0230	9.0000e-005		8.4000e-004	8.4000e-004		7.8000e-004	7.8000e-004	0.0000	8.2886	8.2886	2.6800e-003	0.0000	8.3556
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>27.9162</b>	<b>0.0317</b>	<b>0.1490</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.8000e-003</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>1.7400e-003</b>	<b>1.7400e-003</b>	<b>0.0000</b>	<b>78.4954</b>	<b>78.4954</b>	<b>6.2600e-003</b>	<b>7.2000e-004</b>	<b>78.8673</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	27.9120	1.0900e-003	0.1202	1.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	0.2340	0.2340	6.1000e-004	0.0000	0.2493
Energy	7.7000e-004	7.0000e-003	5.8800e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	69.9728	69.9728	2.9700e-003	7.2000e-004	70.2624
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	3.4800e-003	0.0236	0.0230	9.0000e-005		8.4000e-004	8.4000e-004		7.8000e-004	7.8000e-004	0.0000	8.2886	8.2886	2.6800e-003	0.0000	8.3556
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>27.9162</b>	<b>0.0317</b>	<b>0.1490</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.8000e-003</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>1.7400e-003</b>	<b>1.7400e-003</b>	<b>0.0000</b>	<b>78.4954</b>	<b>78.4954</b>	<b>6.2600e-003</b>	<b>7.2000e-004</b>	<b>78.8673</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	230-kV Transmission Site Work Area Preparation Mobilization	Site Preparation	6/1/2022	6/14/2022	6	12	

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2	230-kV Transmission Foundation Tower Installation Remove two towers	Building Construction	6/15/2022	8/9/2022	6	48
3	Reconductoring Segment Site Development Mobilization	Site Preparation	8/1/2022	8/13/2022	6	12
4	Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Building Construction	8/15/2022	2/18/2023	6	144
5	230-kV Substation Access Roads	Site Preparation	9/1/2022	9/14/2022	6	12
6	230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Grading	9/15/2022	10/12/2022	6	24
7	230-kV Substation Fence and Gate Installation	Building Construction	10/8/2022	10/21/2022	6	12
8	Reconductoring Segment Conductor Installation	Building Construction	10/10/2022	2/28/2023	6	120
9	230-kV Substation Foundation Construction	Building Construction	10/15/2022	11/25/2022	6	36
10	70-kV Substation Mobilization	Site Preparation	10/18/2022	10/30/2022	6	12
11	70-kV Substation Foundation Construction	Building Construction	11/1/2022	12/31/2022	6	48
12	70-kV Substation Ground Grid Conduit Installation	Building Construction	11/1/2022	12/31/2022	6	48
13	230-kV Substation Ground Grid Conduit Installation	Building Construction	11/15/2022	12/12/2022	6	24
14	230-kV Substation Steel Bus Erection	Building Construction	12/9/2022	1/5/2023	6	24
15	230-kV Substation Install Yard Rock	Building Construction	12/23/2022	1/12/2023	6	18
16	70-kV Substation Steel Bus Erection	Building Construction	1/1/2023	1/31/2023	6	24
17	230-kV Substation Transformer & Equip Delivery & Installation	Building Construction	1/2/2023	2/4/2023	6	30
18	230-kV Substation Control Enclosure Delivery and Install	Building Construction	1/6/2023	1/19/2023	6	12
19	230-kV Substation Remaining Equipment Delivery and Install	Building Construction	1/13/2023	2/11/2023	6	24
20	230-kV Transmission Conductor	Building Construction	1/25/2023	1/31/2023	6	6
21	70-kV Substation Equip Delivery & Installation	Building Construction	2/1/2023	2/21/2023	6	18
22	70-kV Substation Control Enclosure Delivery and Install	Building Construction	2/1/2023	2/7/2023	6	6

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23	230-kV Transmission Site Clean-up and Restoration	Building Construction	2/1/2023	2/7/2023	6	6
24	230-kV Substation Cable Installation and Termination	Building Construction	2/1/2023	2/14/2023	6	12
25	230-kV Substation Testing and Commissioning	Building Construction	2/11/2023	3/17/2023	6	30
26	70-kV Substation Cable Installation and Termination	Building Construction	2/22/2023	3/14/2023	6	18
27	70-kV Power Line Site Development Mobilization	Site Preparation	3/1/2023	3/14/2023	6	12
28	Reconductoring Segment Clean-up and Restoration	Site Preparation	3/1/2023	3/14/2023	6	12
29	70-kV Power Line Pole Tower Installation	Building Construction	3/1/2023	11/30/2023	6	216
30	70-kV Substation Install Yard Rock	Building Construction	3/1/2023	3/14/2023	6	12
31	230-kV Substation Cleanup and Restoration	Site Preparation	3/11/2023	3/31/2023	6	18
32	70-kV Cleanup and Restoration	Site Preparation	3/15/2023	3/28/2023	6	12
33	70-kV Substation Testing and Commissioning	Building Construction	4/1/2023	5/31/2023	6	48
34	70-kV Power Line Conductor Installation	Building Construction	11/1/2023	1/31/2024	6	72
35	70-kV Power Line Clean-up and Restoration	Site Preparation	2/1/2024	2/14/2024	6	12

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
230-kV Transmission Site Work Area Preparation Mobilization	Graders	1	6.00	187	0.41
230-kV Transmission Site Work Area Preparation Mobilization	Tractors/Loaders/Backhoes	1	6.00	97	0.37

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230-kV Transmission Foundation Tower Installation Remove two towers	Bore/Drill Rigs	1	1.00	221	0.50
230-kV Transmission Foundation Tower Installation Remove two towers	Cranes	3	5.30	231	0.29
230-kV Transmission Foundation Tower Installation Remove two towers	Forklifts	3	2.60	89	0.20
230-kV Transmission Foundation Tower Installation Remove two towers	Off-Highway Trucks	2	3.50	402	0.38
230-kV Transmission Foundation Tower Installation Remove two towers	Off-Highway Trucks	1	0.80	402	0.38
230-kV Transmission Foundation Tower Installation Remove two towers	Off-Highway Trucks	2	2.60	402	0.38
230-kV Transmission Foundation Tower Installation Remove two towers	Tractors/Loaders/Backhoes	1	0.50	97	0.37
Reconductoring Segment Site Development Mobilization	Graders	1	6.00	187	0.41
Reconductoring Segment Site Development Mobilization	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Bore/Drill Rigs	1	6.00	221	0.50
Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Cranes	3	6.00	231	0.29
Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Cranes	1	1.00	231	0.29
Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Off-Highway Trucks	2	3.00	402	0.38
Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Off-Highway Trucks	2	2.00	402	0.38
230-kV Substation Access Roads	Off-Highway Trucks	2	8.00	402	0.38
230-kV Substation Access Roads	Tractors/Loaders/Backhoes	2	8.00	97	0.37
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Graders	1	8.00	187	0.41
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Off-Highway Trucks	4	10.00	402	0.38
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Off-Highway Trucks	2	10.00	402	0.38
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Rollers	2	8.00	80	0.38



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230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Rubber Tired Dozers	1	8.00	247	0.40
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Rubber Tired Loaders	1	8.00	203	0.36
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Scrapers	1	8.00	367	0.48
230-kV Substation Fence and Gate Installation	Skid Steer Loaders	1	4.00	65	0.37
Reconductoring Segment Conductor Installation	Forklifts	1	3.00	89	0.20
Reconductoring Segment Conductor Installation	Off-Highway Trucks	2	6.00	402	0.38
Reconductoring Segment Conductor Installation	Off-Highway Trucks	2	6.00	402	0.38
Reconductoring Segment Conductor Installation	Off-Highway Trucks	2	4.00	402	0.38
Reconductoring Segment Conductor Installation	Off-Highway Trucks	1	6.00	402	0.38
Reconductoring Segment Conductor Installation	Other General Industrial Equipment	1	6.00	88	0.34
Reconductoring Segment Conductor Installation	Other General Industrial Equipment	1	6.00	88	0.34
230-kV Substation Foundation Construction	Bore/Drill Rigs	1	8.00	221	0.50
230-kV Substation Foundation Construction	Cranes	1	5.00	231	0.29
230-kV Substation Foundation Construction	Tractors/Loaders/Backhoes	1	5.00	97	0.37
70-kV Substation Mobilization	Graders	1	4.00	187	0.41
70-kV Substation Mobilization	Tractors/Loaders/Backhoes	1	4.00	97	0.37
70-kV Substation Foundation Construction	Bore/Drill Rigs	1	8.00	221	0.50
70-kV Substation Foundation Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
70-kV Substation Foundation Construction	Trenchers	1	8.00	78	0.50
70-kV Substation Ground Grid Conduit Installation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
70-kV Substation Ground Grid Conduit Installation	Trenchers	1	6.00	78	0.50
230-kV Substation Ground Grid Conduit Installation	Trenchers	1	8.00	78	0.50

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230-kV Substation Steel Bus Erection	Aerial Lifts	1	6.00	62	0.31
230-kV Substation Steel Bus Erection	Off-Highway Trucks	1	8.00	402	0.38
230-kV Substation Install Yard Rock	Off-Highway Trucks	1	10.00	402	0.38
230-kV Substation Install Yard Rock	Skid Steer Loaders	1	10.00	65	0.37
70-kV Substation Steel Bus Erection	Aerial Lifts	2	8.00	62	0.31
70-kV Substation Steel Bus Erection	Off-Highway Trucks	2	6.00	402	0.38
230-kV Substation Transformer & Equip Delivery & Installation	Generator Sets	1	5.00	84	0.74
230-kV Substation Transformer & Equip Delivery & Installation	Off-Highway Trucks	2	10.00	402	0.38
230-kV Substation Transformer & Equip Delivery & Installation	Off-Highway Trucks	1	4.80	402	0.38
230-kV Substation Transformer & Equip Delivery & Installation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
230-kV Substation Control Enclosure Delivery and Install	Cranes	1	6.00	231	0.29
230-kV Substation Remaining Equipment Delivery and Install	Off-Highway Trucks	1	6.00	402	0.38
230-kV Transmission Conductor	Cranes	3	6.00	231	0.29
230-kV Transmission Conductor	Off-Highway Trucks	2	4.00	402	0.38
230-kV Transmission Conductor	Off-Highway Trucks	2	4.00	402	0.38
70-kV Substation Equip Delivery & Installation	Aerial Lifts	2	4.00	62	0.31
70-kV Substation Equip Delivery & Installation	Off-Highway Trucks	1	5.30	402	0.38
70-kV Substation Control Enclosure Delivery and Install	Off-Highway Trucks	0	0.00	402	0.38
230-kV Transmission Site Clean-up and Restoration	Graders	1	8.00	187	0.41
230-kV Transmission Site Clean-up and Restoration	Tractors/Loaders/Backhoes	1	4.00	97	0.37
230-kV Substation Cable Installation and Termination	Aerial Lifts	1	8.00	62	0.31
230-kV Substation Testing and Commissioning	Off-Highway Trucks	0	0.00	402	0.38
70-kV Substation Cable Installation and Termination	Off-Highway Trucks	0	0.00	402	0.38

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70-kV Power Line Site Development Mobilization	Graders	2	6.00	187	0.41
70-kV Power Line Site Development Mobilization	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Reconductoring Segment Clean-up and Restoration	Graders	1	6.00	187	0.41
Reconductoring Segment Clean-up and Restoration	Tractors/Loaders/Backhoes	1	4.00	97	0.37
70-kV Power Line Pole Tower Installation	Cranes	1	4.00	231	0.29
70-kV Power Line Pole Tower Installation	Off-Highway Trucks	3	4.00	402	0.38
70-kV Power Line Pole Tower Installation	Off-Highway Trucks	3	4.00	402	0.38
70-kV Power Line Pole Tower Installation	Tractors/Loaders/Backhoes	2	4.00	97	0.37
70-kV Power Line Pole Tower Installation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
70-kV Substation Install Yard Rock	Off-Highway Trucks	1	8.00	402	0.38
70-kV Substation Install Yard Rock	Skid Steer Loaders	1	8.00	65	0.37
70-kV Substation Install Yard Rock	Tractors/Loaders/Backhoes	1	8.00	97	0.37
230-kV Substation Cleanup and Restoration	Other General Industrial Equipment	1	6.00	88	0.34
230-kV Substation Cleanup and Restoration	Tractors/Loaders/Backhoes	1	6.00	97	0.37
70-kV Cleanup and Restoration	Off-Highway Trucks	0	0.00	402	0.38
70-kV Substation Testing and Commissioning	Off-Highway Trucks	0	0.00	402	0.38
70-kV Power Line Conductor Installation	Cranes	3	6.00	231	0.29
70-kV Power Line Conductor Installation	Forklifts	1	3.00	89	0.20
70-kV Power Line Conductor Installation	Off-Highway Trucks	3	4.00	402	0.38
70-kV Power Line Conductor Installation	Off-Highway Trucks	1	6.00	402	0.38
70-kV Power Line Conductor Installation	Off-Highway Trucks	2	2.00	402	0.38
70-kV Power Line Conductor Installation	Other General Industrial Equipment	1	6.00	88	0.34
70-kV Power Line Conductor Installation	Other General Industrial Equipment	1	6.00	88	0.34
70-kV Power Line Clean-up and Restoration	Graders	1	6.00	187	0.41
70-kV Power Line Clean-up and Restoration	Tractors/Loaders/Backhoes	1	4.00	97	0.37

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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
230-kV Transmission Site Work Area Prepar	2	22.00	11.00	104.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Transmission Foundation Tower Insta	13	30.00	12.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Reconductoring Segment Site Develop	2	18.00	10.00	0.00	7.67	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Reconductoring Segment Pole Installati	9	38.00	13.00	0.00	6.32	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Access Roads	4	24.00	33.00	0.00	8.45	1.90	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Site Prep Grading Entrance	12	26.00	30.00	393.00	7.85	1.20	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Fence and Gate Install	1	18.00	30.00	0.00	5.87	1.85	20.00	LD_Mix	HDT_Mix	HHDT
Reconductoring Segment Conductor In	10	28.00	10.00	0.00	7.50	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Foundation Construction	3	22.00	31.00	0.00	8.38	1.85	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Mobilization	2	16.00	6.00	0.00	7.68	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Foundation Construction	3	22.00	13.00	0.00	8.45	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Ground Grid Conduit In	2	12.00	9.00	0.00	8.45	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Ground Grid Conduit In	1	12.00	29.00	0.00	9.15	0.91	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Steel Bus Erection	2	12.00	30.00	0.00	9.56	1.20	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Install Yard Rock	2	18.00	45.00	0.00	8.97	8.68	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Steel Bus Erection	4	14.00	9.00	0.00	7.34	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Transformer & Equipm.D	5	18.00	30.00	0.00	8.52	1.15	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Control Enclosure Deliv	1	12.00	2.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Remaining Equipment	1	9.00	28.00	0.00	10.00	1.34	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Transmission Conductor	7	38.00	11.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Equipm.Delivery & Install	3	16.00	12.00	0.00	7.68	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Control Enclosure Deliv	0	12.00	2.00	0.00	9.23	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Transmission Site Clean up and Rest	2	14.00	9.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT

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230-kV Substation Cable Installation and T	1	10.00	3.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Testing and Commissi	0	12.00	26.00	0.00	6.79	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Cable Installation and T	0	12.00	3.00	0.00	6.72	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Power Line Site Development Mobilizati	3	20.00	10.00	0.00	8.68	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Reconductoring Segment Clean-up and	2	16.00	5.00	0.00	8.25	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Power Line Pole Tower Installation	10	41.00	15.00	0.00	8.15	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Install Yard Back	3	12.00	16.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Cleanup and Restorati	2	8.00	29.00	0.00	7.68	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Cleanup and Restoration	0	10.00	0.00	0.00	8.14	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Testing and Commissi	0	12.00	2.00	0.00	8.45	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Power Line Conductor Installation	12	32.00	10.00	0.00	8.56	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Power Line Clean-up and Restorati	2	16.00	7.00	0.00	9.18	13.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

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**3.2 230-kV Transmission Site Work Area Preparation Mobilization - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.8500e-003	0.0000	4.8500e-003	5.3000e-004	0.0000	5.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6100e-003	0.0312	0.0178	4.0000e-005		1.1600e-003	1.1600e-003		1.0700e-003	1.0700e-003	0.0000	3.8477	3.8477	1.2400e-003	0.0000	3.8788
<b>Total</b>	<b>2.6100e-003</b>	<b>0.0312</b>	<b>0.0178</b>	<b>4.0000e-005</b>	<b>4.8500e-003</b>	<b>1.1600e-003</b>	<b>6.0100e-003</b>	<b>5.3000e-004</b>	<b>1.0700e-003</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>3.8477</b>	<b>3.8477</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>3.8788</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9000e-004	0.0140	3.3400e-003	4.0000e-005	8.9000e-004	6.0000e-005	9.4000e-004	2.4000e-004	5.0000e-005	3.0000e-004	0.0000	3.9082	3.9082	2.3000e-004	0.0000	3.9140
Vendor	3.3000e-004	9.5800e-003	2.6400e-003	3.0000e-005	7.8000e-004	4.0000e-005	8.1000e-004	2.2000e-004	3.0000e-005	2.6000e-004	0.0000	2.7704	2.7704	1.2000e-004	0.0000	2.7734
Worker	4.2000e-004	3.4000e-004	3.0500e-003	1.0000e-005	9.8000e-004	1.0000e-005	9.8000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7675	0.7675	2.0000e-005	0.0000	0.7681
<b>Total</b>	<b>1.1400e-003</b>	<b>0.0239</b>	<b>9.0300e-003</b>	<b>8.0000e-005</b>	<b>2.6500e-003</b>	<b>1.1000e-004</b>	<b>2.7300e-003</b>	<b>7.2000e-004</b>	<b>9.0000e-005</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>7.4460</b>	<b>7.4460</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>7.4554</b>

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**3.2 230-kV Transmission Site Work Area Preparation Mobilization - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.8900e-003	0.0000	1.8900e-003	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6100e-003	0.0312	0.0178	4.0000e-005		1.1600e-003	1.1600e-003		1.0700e-003	1.0700e-003	0.0000	3.8477	3.8477	1.2400e-003	0.0000	3.8788
<b>Total</b>	<b>2.6100e-003</b>	<b>0.0312</b>	<b>0.0178</b>	<b>4.0000e-005</b>	<b>1.8900e-003</b>	<b>1.1600e-003</b>	<b>3.0500e-003</b>	<b>2.1000e-004</b>	<b>1.0700e-003</b>	<b>1.2800e-003</b>	<b>0.0000</b>	<b>3.8477</b>	<b>3.8477</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>3.8788</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9000e-004	0.0140	3.3400e-003	4.0000e-005	8.9000e-004	6.0000e-005	9.4000e-004	2.4000e-004	5.0000e-005	3.0000e-004	0.0000	3.9082	3.9082	2.3000e-004	0.0000	3.9140
Vendor	3.3000e-004	9.5800e-003	2.6400e-003	3.0000e-005	7.8000e-004	4.0000e-005	8.1000e-004	2.2000e-004	3.0000e-005	2.6000e-004	0.0000	2.7704	2.7704	1.2000e-004	0.0000	2.7734
Worker	4.2000e-004	3.4000e-004	3.0500e-003	1.0000e-005	9.8000e-004	1.0000e-005	9.8000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7675	0.7675	2.0000e-005	0.0000	0.7681
<b>Total</b>	<b>1.1400e-003</b>	<b>0.0239</b>	<b>9.0300e-003</b>	<b>8.0000e-005</b>	<b>2.6500e-003</b>	<b>1.1000e-004</b>	<b>2.7300e-003</b>	<b>7.2000e-004</b>	<b>9.0000e-005</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>7.4460</b>	<b>7.4460</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>7.4554</b>

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**3.3 230-kV Transmission Foundation Tower Installation Remove two towers - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0420	0.3901	0.2577	8.6000e-004		0.0160	0.0160		0.0147	0.0147	0.0000	75.4715	75.4715	0.0244	0.0000	76.0817
<b>Total</b>	<b>0.0420</b>	<b>0.3901</b>	<b>0.2577</b>	<b>8.6000e-004</b>		<b>0.0160</b>	<b>0.0160</b>		<b>0.0147</b>	<b>0.0147</b>	<b>0.0000</b>	<b>75.4715</b>	<b>75.4715</b>	<b>0.0244</b>	<b>0.0000</b>	<b>76.0817</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4200e-003	0.0418	0.0115	1.3000e-004	3.3900e-003	1.6000e-004	3.5500e-003	9.8000e-004	1.5000e-004	1.1300e-003	0.0000	12.0888	12.0888	5.3000e-004	0.0000	12.1020
Worker	2.2700e-003	1.8300e-003	0.0167	5.0000e-005	5.3300e-003	3.0000e-005	5.3700e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.1864	4.1864	1.2000e-004	0.0000	4.1894
<b>Total</b>	<b>3.6900e-003</b>	<b>0.0436</b>	<b>0.0282</b>	<b>1.8000e-004</b>	<b>8.7200e-003</b>	<b>1.9000e-004</b>	<b>8.9200e-003</b>	<b>2.4000e-003</b>	<b>1.8000e-004</b>	<b>2.5800e-003</b>	<b>0.0000</b>	<b>16.2752</b>	<b>16.2752</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>16.2914</b>



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**3.3 230-kV Transmission Foundation Tower Installation Remove two towers - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0420	0.3901	0.2577	8.6000e-004		0.0160	0.0160		0.0147	0.0147	0.0000	75.4714	75.4714	0.0244	0.0000	76.0816
<b>Total</b>	<b>0.0420</b>	<b>0.3901</b>	<b>0.2577</b>	<b>8.6000e-004</b>		<b>0.0160</b>	<b>0.0160</b>		<b>0.0147</b>	<b>0.0147</b>	<b>0.0000</b>	<b>75.4714</b>	<b>75.4714</b>	<b>0.0244</b>	<b>0.0000</b>	<b>76.0816</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4200e-003	0.0418	0.0115	1.3000e-004	3.3900e-003	1.6000e-004	3.5500e-003	9.8000e-004	1.5000e-004	1.1300e-003	0.0000	12.0888	12.0888	5.3000e-004	0.0000	12.1020
Worker	2.2700e-003	1.8300e-003	0.0167	5.0000e-005	5.3300e-003	3.0000e-005	5.3700e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.1864	4.1864	1.2000e-004	0.0000	4.1894
<b>Total</b>	<b>3.6900e-003</b>	<b>0.0436</b>	<b>0.0282</b>	<b>1.8000e-004</b>	<b>8.7200e-003</b>	<b>1.9000e-004</b>	<b>8.9200e-003</b>	<b>2.4000e-003</b>	<b>1.8000e-004</b>	<b>2.5800e-003</b>	<b>0.0000</b>	<b>16.2752</b>	<b>16.2752</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>16.2914</b>

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**3.4 Reconductoring Segment Site Development Mobilization - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.7700e-003	0.0000	4.7700e-003	5.2000e-004	0.0000	5.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3600e-003	0.0287	0.0145	4.0000e-005		1.0200e-003	1.0200e-003		9.4000e-004	9.4000e-004	0.0000	3.4378	3.4378	1.1100e-003	0.0000	3.4656
<b>Total</b>	<b>2.3600e-003</b>	<b>0.0287</b>	<b>0.0145</b>	<b>4.0000e-005</b>	<b>4.7700e-003</b>	<b>1.0200e-003</b>	<b>5.7900e-003</b>	<b>5.2000e-004</b>	<b>9.4000e-004</b>	<b>1.4600e-003</b>	<b>0.0000</b>	<b>3.4378</b>	<b>3.4378</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>3.4656</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-004	8.7100e-003	2.4000e-003	3.0000e-005	7.1000e-004	3.0000e-005	7.4000e-004	2.0000e-004	3.0000e-005	2.4000e-004	0.0000	2.5185	2.5185	1.1000e-004	0.0000	2.5213
Worker	2.8000e-004	2.2000e-004	2.0400e-003	1.0000e-005	6.1000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.4864	0.4864	1.0000e-005	0.0000	0.4868
<b>Total</b>	<b>5.8000e-004</b>	<b>8.9300e-003</b>	<b>4.4400e-003</b>	<b>4.0000e-005</b>	<b>1.3200e-003</b>	<b>3.0000e-005</b>	<b>1.3600e-003</b>	<b>3.6000e-004</b>	<b>3.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>3.0049</b>	<b>3.0049</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.0081</b>

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**3.4 Reconductoring Segment Site Development Mobilization - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.8600e-003	0.0000	1.8600e-003	2.0000e-004	0.0000	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3600e-003	0.0287	0.0145	4.0000e-005		1.0200e-003	1.0200e-003		9.4000e-004	9.4000e-004	0.0000	3.4378	3.4378	1.1100e-003	0.0000	3.4655
<b>Total</b>	<b>2.3600e-003</b>	<b>0.0287</b>	<b>0.0145</b>	<b>4.0000e-005</b>	<b>1.8600e-003</b>	<b>1.0200e-003</b>	<b>2.8800e-003</b>	<b>2.0000e-004</b>	<b>9.4000e-004</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>3.4378</b>	<b>3.4378</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>3.4655</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-004	8.7100e-003	2.4000e-003	3.0000e-005	7.1000e-004	3.0000e-005	7.4000e-004	2.0000e-004	3.0000e-005	2.4000e-004	0.0000	2.5185	2.5185	1.1000e-004	0.0000	2.5213
Worker	2.8000e-004	2.2000e-004	2.0400e-003	1.0000e-005	6.1000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.4864	0.4864	1.0000e-005	0.0000	0.4868
<b>Total</b>	<b>5.8000e-004</b>	<b>8.9300e-003</b>	<b>4.4400e-003</b>	<b>4.0000e-005</b>	<b>1.3200e-003</b>	<b>3.0000e-005</b>	<b>1.3600e-003</b>	<b>3.6000e-004</b>	<b>3.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>3.0049</b>	<b>3.0049</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.0081</b>

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**3.5 Reconductoring Segment Pole Installation Transfer  
Distribution Pole Removal - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1029	0.9993	0.6134	2.2400e-003		0.0390	0.0390		0.0359	0.0359	0.0000	196.5574	196.5574	0.0636	0.0000	198.1467
<b>Total</b>	<b>0.1029</b>	<b>0.9993</b>	<b>0.6134</b>	<b>2.2400e-003</b>		<b>0.0390</b>	<b>0.0390</b>		<b>0.0359</b>	<b>0.0359</b>	<b>0.0000</b>	<b>196.5574</b>	<b>196.5574</b>	<b>0.0636</b>	<b>0.0000</b>	<b>198.1467</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8500e-003	0.1132	0.0312	3.4000e-004	9.1800e-003	4.2000e-004	9.6100e-003	2.6500e-003	4.1000e-004	3.0600e-003	0.0000	32.7405	32.7405	1.4300e-003	0.0000	32.7762
Worker	5.2800e-003	3.9800e-003	0.0376	9.0000e-005	0.0107	7.0000e-005	0.0108	2.8400e-003	7.0000e-005	2.9100e-003	0.0000	8.5383	8.5383	2.6000e-004	0.0000	8.5449
<b>Total</b>	<b>9.1300e-003</b>	<b>0.1172</b>	<b>0.0688</b>	<b>4.3000e-004</b>	<b>0.0199</b>	<b>4.9000e-004</b>	<b>0.0204</b>	<b>5.4900e-003</b>	<b>4.8000e-004</b>	<b>5.9700e-003</b>	<b>0.0000</b>	<b>41.2788</b>	<b>41.2788</b>	<b>1.6900e-003</b>	<b>0.0000</b>	<b>41.3211</b>

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**3.5 Reconductoring Segment Pole Installation Transfer  
Distribution Pole Removal - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1029	0.9993	0.6134	2.2400e-003		0.0390	0.0390		0.0359	0.0359	0.0000	196.5572	196.5572	0.0636	0.0000	198.1464
<b>Total</b>	<b>0.1029</b>	<b>0.9993</b>	<b>0.6134</b>	<b>2.2400e-003</b>		<b>0.0390</b>	<b>0.0390</b>		<b>0.0359</b>	<b>0.0359</b>	<b>0.0000</b>	<b>196.5572</b>	<b>196.5572</b>	<b>0.0636</b>	<b>0.0000</b>	<b>198.1464</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8500e-003	0.1132	0.0312	3.4000e-004	9.1800e-003	4.2000e-004	9.6100e-003	2.6500e-003	4.1000e-004	3.0600e-003	0.0000	32.7405	32.7405	1.4300e-003	0.0000	32.7762
Worker	5.2800e-003	3.9800e-003	0.0376	9.0000e-005	0.0107	7.0000e-005	0.0108	2.8400e-003	7.0000e-005	2.9100e-003	0.0000	8.5383	8.5383	2.6000e-004	0.0000	8.5449
<b>Total</b>	<b>9.1300e-003</b>	<b>0.1172</b>	<b>0.0688</b>	<b>4.3000e-004</b>	<b>0.0199</b>	<b>4.9000e-004</b>	<b>0.0204</b>	<b>5.4900e-003</b>	<b>4.8000e-004</b>	<b>5.9700e-003</b>	<b>0.0000</b>	<b>41.2788</b>	<b>41.2788</b>	<b>1.6900e-003</b>	<b>0.0000</b>	<b>41.3211</b>

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**3.5 Reconductoring Segment Pole Installation Transfer  
Distribution Pole Removal - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0341	0.3161	0.2098	7.8000e-004		0.0124	0.0124		0.0114	0.0114	0.0000	68.8424	68.8424	0.0223	0.0000	69.3991
<b>Total</b>	<b>0.0341</b>	<b>0.3161</b>	<b>0.2098</b>	<b>7.8000e-004</b>		<b>0.0124</b>	<b>0.0124</b>		<b>0.0114</b>	<b>0.0114</b>	<b>0.0000</b>	<b>68.8424</b>	<b>68.8424</b>	<b>0.0223</b>	<b>0.0000</b>	<b>69.3991</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0100e-003	0.0305	9.6300e-003	1.2000e-004	3.2100e-003	7.0000e-005	3.2800e-003	9.3000e-004	7.0000e-005	9.9000e-004	0.0000	11.2417	11.2417	4.6000e-004	0.0000	11.2533
Worker	1.7300e-003	1.2500e-003	0.0120	3.0000e-005	3.7400e-003	2.0000e-005	3.7600e-003	9.9000e-004	2.0000e-005	1.0200e-003	0.0000	2.8766	2.8766	8.0000e-005	0.0000	2.8786
<b>Total</b>	<b>2.7400e-003</b>	<b>0.0318</b>	<b>0.0216</b>	<b>1.5000e-004</b>	<b>6.9500e-003</b>	<b>9.0000e-005</b>	<b>7.0400e-003</b>	<b>1.9200e-003</b>	<b>9.0000e-005</b>	<b>2.0100e-003</b>	<b>0.0000</b>	<b>14.1183</b>	<b>14.1183</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>14.1319</b>

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**3.5 Reconductoring Segment Pole Installation Transfer  
Distribution Pole Removal - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0341	0.3161	0.2098	7.8000e-004		0.0124	0.0124		0.0114	0.0114	0.0000	68.8423	68.8423	0.0223	0.0000	69.3990
<b>Total</b>	<b>0.0341</b>	<b>0.3161</b>	<b>0.2098</b>	<b>7.8000e-004</b>		<b>0.0124</b>	<b>0.0124</b>		<b>0.0114</b>	<b>0.0114</b>	<b>0.0000</b>	<b>68.8423</b>	<b>68.8423</b>	<b>0.0223</b>	<b>0.0000</b>	<b>69.3990</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0100e-003	0.0305	9.6300e-003	1.2000e-004	3.2100e-003	7.0000e-005	3.2800e-003	9.3000e-004	7.0000e-005	9.9000e-004	0.0000	11.2417	11.2417	4.6000e-004	0.0000	11.2533
Worker	1.7300e-003	1.2500e-003	0.0120	3.0000e-005	3.7400e-003	2.0000e-005	3.7600e-003	9.9000e-004	2.0000e-005	1.0200e-003	0.0000	2.8766	2.8766	8.0000e-005	0.0000	2.8786
<b>Total</b>	<b>2.7400e-003</b>	<b>0.0318</b>	<b>0.0216</b>	<b>1.5000e-004</b>	<b>6.9500e-003</b>	<b>9.0000e-005</b>	<b>7.0400e-003</b>	<b>1.9200e-003</b>	<b>9.0000e-005</b>	<b>2.0100e-003</b>	<b>0.0000</b>	<b>14.1183</b>	<b>14.1183</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>14.1319</b>

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**3.6 230-kV Substation Access Roads - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.3200e-003	0.0683	0.0672	2.0000e-004		2.8300e-003	2.8300e-003		2.6100e-003	2.6100e-003	0.0000	17.2027	17.2027	5.5600e-003	0.0000	17.3418
<b>Total</b>	<b>8.3200e-003</b>	<b>0.0683</b>	<b>0.0672</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.8300e-003</b>	<b>2.8300e-003</b>	<b>0.0000</b>	<b>2.6100e-003</b>	<b>2.6100e-003</b>	<b>0.0000</b>	<b>17.2027</b>	<b>17.2027</b>	<b>5.5600e-003</b>	<b>0.0000</b>	<b>17.3418</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	0.0137	4.0000e-003	2.0000e-005	3.5000e-004	2.0000e-005	3.7000e-004	1.0000e-004	2.0000e-005	1.2000e-004	0.0000	1.9974	1.9974	1.7000e-004	0.0000	2.0015
Worker	4.0000e-004	3.2000e-004	2.9300e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7118	0.7118	2.0000e-005	0.0000	0.7123
<b>Total</b>	<b>8.0000e-004</b>	<b>0.0140</b>	<b>6.9300e-003</b>	<b>3.0000e-005</b>	<b>1.2500e-003</b>	<b>3.0000e-005</b>	<b>1.2800e-003</b>	<b>3.4000e-004</b>	<b>3.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>2.7091</b>	<b>2.7091</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.7138</b>



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**3.6 230-kV Substation Access Roads - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.3200e-003	0.0683	0.0672	2.0000e-004		2.8300e-003	2.8300e-003		2.6100e-003	2.6100e-003	0.0000	17.2026	17.2026	5.5600e-003	0.0000	17.3417
<b>Total</b>	<b>8.3200e-003</b>	<b>0.0683</b>	<b>0.0672</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.8300e-003</b>	<b>2.8300e-003</b>	<b>0.0000</b>	<b>2.6100e-003</b>	<b>2.6100e-003</b>	<b>0.0000</b>	<b>17.2026</b>	<b>17.2026</b>	<b>5.5600e-003</b>	<b>0.0000</b>	<b>17.3417</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	0.0137	4.0000e-003	2.0000e-005	3.5000e-004	2.0000e-005	3.7000e-004	1.0000e-004	2.0000e-005	1.2000e-004	0.0000	1.9974	1.9974	1.7000e-004	0.0000	2.0015
Worker	4.0000e-004	3.2000e-004	2.9300e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7118	0.7118	2.0000e-005	0.0000	0.7123
<b>Total</b>	<b>8.0000e-004</b>	<b>0.0140</b>	<b>6.9300e-003</b>	<b>3.0000e-005</b>	<b>1.2500e-003</b>	<b>3.0000e-005</b>	<b>1.2800e-003</b>	<b>3.4000e-004</b>	<b>3.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>2.7091</b>	<b>2.7091</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.7138</b>

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**3.7 230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0869	0.0000	0.0869	0.0413	0.0000	0.0413	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0799	0.7149	0.5055	1.6900e-003		0.0279	0.0279		0.0257	0.0257	0.0000	148.5410	148.5410	0.0480	0.0000	149.7420
<b>Total</b>	<b>0.0799</b>	<b>0.7149</b>	<b>0.5055</b>	<b>1.6900e-003</b>	<b>0.0869</b>	<b>0.0279</b>	<b>0.1148</b>	<b>0.0413</b>	<b>0.0257</b>	<b>0.0670</b>	<b>0.0000</b>	<b>148.5410</b>	<b>148.5410</b>	<b>0.0480</b>	<b>0.0000</b>	<b>149.7420</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4900e-003	0.0528	0.0126	1.5000e-004	3.3500e-003	2.1000e-004	3.5600e-003	9.2000e-004	2.0000e-004	1.1200e-003	0.0000	14.7683	14.7683	8.8000e-004	0.0000	14.7902
Vendor	6.5000e-004	0.0232	6.8300e-003	3.0000e-005	4.0000e-004	3.0000e-005	4.3000e-004	1.2000e-004	3.0000e-005	1.5000e-004	0.0000	2.9077	2.9077	2.8000e-004	0.0000	2.9147
Worker	8.3000e-004	6.5000e-004	6.0000e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4369	1.4369	4.0000e-005	0.0000	1.4379
<b>Total</b>	<b>2.9700e-003</b>	<b>0.0767</b>	<b>0.0254</b>	<b>2.0000e-004</b>	<b>5.5600e-003</b>	<b>2.5000e-004</b>	<b>5.8200e-003</b>	<b>1.5200e-003</b>	<b>2.4000e-004</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>19.1129</b>	<b>19.1129</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>19.1428</b>

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**3.7 230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0339	0.0000	0.0339	0.0161	0.0000	0.0161	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0799	0.7149	0.5055	1.6900e-003		0.0279	0.0279		0.0257	0.0257	0.0000	148.5408	148.5408	0.0480	0.0000	149.7419
<b>Total</b>	<b>0.0799</b>	<b>0.7149</b>	<b>0.5055</b>	<b>1.6900e-003</b>	<b>0.0339</b>	<b>0.0279</b>	<b>0.0618</b>	<b>0.0161</b>	<b>0.0257</b>	<b>0.0418</b>	<b>0.0000</b>	<b>148.5408</b>	<b>148.5408</b>	<b>0.0480</b>	<b>0.0000</b>	<b>149.7419</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4900e-003	0.0528	0.0126	1.5000e-004	3.3500e-003	2.1000e-004	3.5600e-003	9.2000e-004	2.0000e-004	1.1200e-003	0.0000	14.7683	14.7683	8.8000e-004	0.0000	14.7902
Vendor	6.5000e-004	0.0232	6.8300e-003	3.0000e-005	4.0000e-004	3.0000e-005	4.3000e-004	1.2000e-004	3.0000e-005	1.5000e-004	0.0000	2.9077	2.9077	2.8000e-004	0.0000	2.9147
Worker	8.3000e-004	6.5000e-004	6.0000e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4369	1.4369	4.0000e-005	0.0000	1.4379
<b>Total</b>	<b>2.9700e-003</b>	<b>0.0767</b>	<b>0.0254</b>	<b>2.0000e-004</b>	<b>5.5600e-003</b>	<b>2.5000e-004</b>	<b>5.8200e-003</b>	<b>1.5200e-003</b>	<b>2.4000e-004</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>19.1129</b>	<b>19.1129</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>19.1428</b>

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**3.8 230-kV Substation Fence and Gate Installation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1000e-004	2.7900e-003	4.1600e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.5454	0.5454	1.8000e-004	0.0000	0.5498
<b>Total</b>	<b>2.1000e-004</b>	<b>2.7900e-003</b>	<b>4.1600e-003</b>	<b>1.0000e-005</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.5454</b>	<b>0.5454</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5498</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.6000e-004	0.0124	3.6200e-003	2.0000e-005	3.1000e-004	2.0000e-005	3.3000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	1.7900	1.7900	1.5000e-004	0.0000	1.7937
Worker	2.4000e-004	1.8000e-004	1.6900e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3771	0.3771	1.0000e-005	0.0000	0.3774
<b>Total</b>	<b>6.0000e-004</b>	<b>0.0126</b>	<b>5.3100e-003</b>	<b>2.0000e-005</b>	<b>7.8000e-004</b>	<b>2.0000e-005</b>	<b>8.0000e-004</b>	<b>2.1000e-004</b>	<b>2.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.1671</b>	<b>2.1671</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.1711</b>

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**3.8 230-kV Substation Fence and Gate Installation - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1000e-004	2.7900e-003	4.1600e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.5454	0.5454	1.8000e-004	0.0000	0.5498
<b>Total</b>	<b>2.1000e-004</b>	<b>2.7900e-003</b>	<b>4.1600e-003</b>	<b>1.0000e-005</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.5454</b>	<b>0.5454</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5498</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.6000e-004	0.0124	3.6200e-003	2.0000e-005	3.1000e-004	2.0000e-005	3.3000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	1.7900	1.7900	1.5000e-004	0.0000	1.7937
Worker	2.4000e-004	1.8000e-004	1.6900e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3771	0.3771	1.0000e-005	0.0000	0.3774
<b>Total</b>	<b>6.0000e-004</b>	<b>0.0126</b>	<b>5.3100e-003</b>	<b>2.0000e-005</b>	<b>7.8000e-004</b>	<b>2.0000e-005</b>	<b>8.0000e-004</b>	<b>2.1000e-004</b>	<b>2.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.1671</b>	<b>2.1671</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.1711</b>

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**3.9 Reconductoring Segment Conductor Installation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1015	0.7918	0.6945	2.4200e-003		0.0316	0.0316		0.0291	0.0291	0.0000	212.3700	212.3700	0.0687	0.0000	214.0872
<b>Total</b>	<b>0.1015</b>	<b>0.7918</b>	<b>0.6945</b>	<b>2.4200e-003</b>		<b>0.0316</b>	<b>0.0316</b>		<b>0.0291</b>	<b>0.0291</b>	<b>0.0000</b>	<b>212.3700</b>	<b>212.3700</b>	<b>0.0687</b>	<b>0.0000</b>	<b>214.0872</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7800e-003	0.0523	0.0144	1.6000e-004	4.2400e-003	2.0000e-004	4.4300e-003	1.2200e-003	1.9000e-004	1.4100e-003	0.0000	15.1110	15.1110	6.6000e-004	0.0000	15.1275
Worker	2.6000e-003	2.0200e-003	0.0188	5.0000e-005	5.6000e-003	4.0000e-005	5.6400e-003	1.4900e-003	3.0000e-005	1.5200e-003	0.0000	4.4438	4.4438	1.3000e-004	0.0000	4.4471
<b>Total</b>	<b>4.3800e-003</b>	<b>0.0543</b>	<b>0.0332</b>	<b>2.1000e-004</b>	<b>9.8400e-003</b>	<b>2.4000e-004</b>	<b>0.0101</b>	<b>2.7100e-003</b>	<b>2.2000e-004</b>	<b>2.9300e-003</b>	<b>0.0000</b>	<b>19.5547</b>	<b>19.5547</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>19.5746</b>

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**3.9 Reconductoring Segment Conductor Installation - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1015	0.7918	0.6945	2.4200e-003		0.0316	0.0316		0.0291	0.0291	0.0000	212.3698	212.3698	0.0687	0.0000	214.0869
<b>Total</b>	<b>0.1015</b>	<b>0.7918</b>	<b>0.6945</b>	<b>2.4200e-003</b>		<b>0.0316</b>	<b>0.0316</b>		<b>0.0291</b>	<b>0.0291</b>	<b>0.0000</b>	<b>212.3698</b>	<b>212.3698</b>	<b>0.0687</b>	<b>0.0000</b>	<b>214.0869</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7800e-003	0.0523	0.0144	1.6000e-004	4.2400e-003	2.0000e-004	4.4300e-003	1.2200e-003	1.9000e-004	1.4100e-003	0.0000	15.1110	15.1110	6.6000e-004	0.0000	15.1275
Worker	2.6000e-003	2.0200e-003	0.0188	5.0000e-005	5.6000e-003	4.0000e-005	5.6400e-003	1.4900e-003	3.0000e-005	1.5200e-003	0.0000	4.4438	4.4438	1.3000e-004	0.0000	4.4471
<b>Total</b>	<b>4.3800e-003</b>	<b>0.0543</b>	<b>0.0332</b>	<b>2.1000e-004</b>	<b>9.8400e-003</b>	<b>2.4000e-004</b>	<b>0.0101</b>	<b>2.7100e-003</b>	<b>2.2000e-004</b>	<b>2.9300e-003</b>	<b>0.0000</b>	<b>19.5547</b>	<b>19.5547</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>19.5746</b>

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**3.9 Reconductoring Segment Conductor Installation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0669	0.4906	0.4734	1.6800e-003		0.0192	0.0192		0.0177	0.0177	0.0000	147.5765	147.5765	0.0477	0.0000	148.7697
<b>Total</b>	<b>0.0669</b>	<b>0.4906</b>	<b>0.4734</b>	<b>1.6800e-003</b>		<b>0.0192</b>	<b>0.0192</b>		<b>0.0177</b>	<b>0.0177</b>	<b>0.0000</b>	<b>147.5765</b>	<b>147.5765</b>	<b>0.0477</b>	<b>0.0000</b>	<b>148.7697</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3000e-004	0.0280	8.8200e-003	1.1000e-004	2.9400e-003	6.0000e-005	3.0100e-003	8.5000e-004	6.0000e-005	9.1000e-004	0.0000	10.2946	10.2946	4.2000e-004	0.0000	10.3052
Worker	1.6900e-003	1.2600e-003	0.0119	3.0000e-005	3.8900e-003	3.0000e-005	3.9200e-003	1.0300e-003	2.0000e-005	1.0600e-003	0.0000	2.9704	2.9704	8.0000e-005	0.0000	2.9724
<b>Total</b>	<b>2.6200e-003</b>	<b>0.0292</b>	<b>0.0207</b>	<b>1.4000e-004</b>	<b>6.8300e-003</b>	<b>9.0000e-005</b>	<b>6.9300e-003</b>	<b>1.8800e-003</b>	<b>8.0000e-005</b>	<b>1.9700e-003</b>	<b>0.0000</b>	<b>13.2650</b>	<b>13.2650</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>13.2777</b>



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**3.9 Reconductoring Segment Conductor Installation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0669	0.4906	0.4734	1.6800e-003		0.0192	0.0192		0.0177	0.0177	0.0000	147.5763	147.5763	0.0477	0.0000	148.7695
<b>Total</b>	<b>0.0669</b>	<b>0.4906</b>	<b>0.4734</b>	<b>1.6800e-003</b>		<b>0.0192</b>	<b>0.0192</b>		<b>0.0177</b>	<b>0.0177</b>	<b>0.0000</b>	<b>147.5763</b>	<b>147.5763</b>	<b>0.0477</b>	<b>0.0000</b>	<b>148.7695</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3000e-004	0.0280	8.8200e-003	1.1000e-004	2.9400e-003	6.0000e-005	3.0100e-003	8.5000e-004	6.0000e-005	9.1000e-004	0.0000	10.2946	10.2946	4.2000e-004	0.0000	10.3052
Worker	1.6900e-003	1.2600e-003	0.0119	3.0000e-005	3.8900e-003	3.0000e-005	3.9200e-003	1.0300e-003	2.0000e-005	1.0600e-003	0.0000	2.9704	2.9704	8.0000e-005	0.0000	2.9724
<b>Total</b>	<b>2.6200e-003</b>	<b>0.0292</b>	<b>0.0207</b>	<b>1.4000e-004</b>	<b>6.8300e-003</b>	<b>9.0000e-005</b>	<b>6.9300e-003</b>	<b>1.8800e-003</b>	<b>8.0000e-005</b>	<b>1.9700e-003</b>	<b>0.0000</b>	<b>13.2650</b>	<b>13.2650</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>13.2777</b>

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**3.10 230-kV Substation Foundation Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0101	0.1067	0.0832	2.7000e-004		4.2800e-003	4.2800e-003		3.9400e-003	3.9400e-003	0.0000	23.6956	23.6956	7.6600e-003	0.0000	23.8871
<b>Total</b>	<b>0.0101</b>	<b>0.1067</b>	<b>0.0832</b>	<b>2.7000e-004</b>		<b>4.2800e-003</b>	<b>4.2800e-003</b>		<b>3.9400e-003</b>	<b>3.9400e-003</b>	<b>0.0000</b>	<b>23.6956</b>	<b>23.6956</b>	<b>7.6600e-003</b>	<b>0.0000</b>	<b>23.8871</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1100e-003	0.0385	0.0112	6.0000e-005	9.5000e-004	7.0000e-005	1.0100e-003	2.7000e-004	6.0000e-005	3.4000e-004	0.0000	5.5489	5.5489	4.6000e-004	0.0000	5.5605
Worker	1.1000e-003	8.7000e-004	8.0000e-003	2.0000e-005	2.4600e-003	2.0000e-005	2.4700e-003	6.5000e-004	1.0000e-005	6.7000e-004	0.0000	1.9417	1.9417	6.0000e-005	0.0000	1.9432
<b>Total</b>	<b>2.2100e-003</b>	<b>0.0393</b>	<b>0.0192</b>	<b>8.0000e-005</b>	<b>3.4100e-003</b>	<b>9.0000e-005</b>	<b>3.4800e-003</b>	<b>9.2000e-004</b>	<b>7.0000e-005</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>7.4906</b>	<b>7.4906</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>7.5036</b>

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**3.10 230-kV Substation Foundation Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0101	0.1067	0.0832	2.7000e-004		4.2800e-003	4.2800e-003		3.9400e-003	3.9400e-003	0.0000	23.6955	23.6955	7.6600e-003	0.0000	23.8871
<b>Total</b>	<b>0.0101</b>	<b>0.1067</b>	<b>0.0832</b>	<b>2.7000e-004</b>		<b>4.2800e-003</b>	<b>4.2800e-003</b>		<b>3.9400e-003</b>	<b>3.9400e-003</b>	<b>0.0000</b>	<b>23.6955</b>	<b>23.6955</b>	<b>7.6600e-003</b>	<b>0.0000</b>	<b>23.8871</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1100e-003	0.0385	0.0112	6.0000e-005	9.5000e-004	7.0000e-005	1.0100e-003	2.7000e-004	6.0000e-005	3.4000e-004	0.0000	5.5489	5.5489	4.6000e-004	0.0000	5.5605
Worker	1.1000e-003	8.7000e-004	8.0000e-003	2.0000e-005	2.4600e-003	2.0000e-005	2.4700e-003	6.5000e-004	1.0000e-005	6.7000e-004	0.0000	1.9417	1.9417	6.0000e-005	0.0000	1.9432
<b>Total</b>	<b>2.2100e-003</b>	<b>0.0393</b>	<b>0.0192</b>	<b>8.0000e-005</b>	<b>3.4100e-003</b>	<b>9.0000e-005</b>	<b>3.4800e-003</b>	<b>9.2000e-004</b>	<b>7.0000e-005</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>7.4906</b>	<b>7.4906</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>7.5036</b>

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**3.11 70-kV Substation Mobilization - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.4600e-003	0.0000	1.4600e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5900e-003	0.0191	0.0109	3.0000e-005		7.1000e-004	7.1000e-004		6.5000e-004	6.5000e-004	0.0000	2.3514	2.3514	7.6000e-004	0.0000	2.3704
<b>Total</b>	<b>1.5900e-003</b>	<b>0.0191</b>	<b>0.0109</b>	<b>3.0000e-005</b>	<b>1.4600e-003</b>	<b>7.1000e-004</b>	<b>2.1700e-003</b>	<b>1.6000e-004</b>	<b>6.5000e-004</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>2.3514</b>	<b>2.3514</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>2.3704</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	4.7900e-003	1.3200e-003	1.0000e-005	3.9000e-004	2.0000e-005	4.1000e-004	1.1000e-004	2.0000e-005	1.3000e-004	0.0000	1.3852	1.3852	6.0000e-005	0.0000	1.3867
Worker	2.3000e-004	1.8000e-004	1.6700e-003	0.0000	5.0000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.3969	0.3969	1.0000e-005	0.0000	0.3972
<b>Total</b>	<b>3.9000e-004</b>	<b>4.9700e-003</b>	<b>2.9900e-003</b>	<b>1.0000e-005</b>	<b>8.9000e-004</b>	<b>2.0000e-005</b>	<b>9.1000e-004</b>	<b>2.4000e-004</b>	<b>2.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.7820</b>	<b>1.7820</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.7838</b>

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**3.11 70-kV Substation Mobilization - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.7000e-004	0.0000	5.7000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5900e-003	0.0191	0.0109	3.0000e-005		7.1000e-004	7.1000e-004		6.5000e-004	6.5000e-004	0.0000	2.3514	2.3514	7.6000e-004	0.0000	2.3704
<b>Total</b>	<b>1.5900e-003</b>	<b>0.0191</b>	<b>0.0109</b>	<b>3.0000e-005</b>	<b>5.7000e-004</b>	<b>7.1000e-004</b>	<b>1.2800e-003</b>	<b>6.0000e-005</b>	<b>6.5000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>2.3514</b>	<b>2.3514</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>2.3704</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	4.7900e-003	1.3200e-003	1.0000e-005	3.9000e-004	2.0000e-005	4.1000e-004	1.1000e-004	2.0000e-005	1.3000e-004	0.0000	1.3852	1.3852	6.0000e-005	0.0000	1.3867
Worker	2.3000e-004	1.8000e-004	1.6700e-003	0.0000	5.0000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.3969	0.3969	1.0000e-005	0.0000	0.3972
<b>Total</b>	<b>3.9000e-004</b>	<b>4.9700e-003</b>	<b>2.9900e-003</b>	<b>1.0000e-005</b>	<b>8.9000e-004</b>	<b>2.0000e-005</b>	<b>9.1000e-004</b>	<b>2.4000e-004</b>	<b>2.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.7820</b>	<b>1.7820</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.7838</b>

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**3.12 70-kV Substation Foundation Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0200	0.1940	0.1823	4.2000e-004		0.0107	0.0107		9.8100e-003	9.8100e-003	0.0000	37.0643	37.0643	0.0120	0.0000	37.3639
<b>Total</b>	<b>0.0200</b>	<b>0.1940</b>	<b>0.1823</b>	<b>4.2000e-004</b>		<b>0.0107</b>	<b>0.0107</b>		<b>9.8100e-003</b>	<b>9.8100e-003</b>	<b>0.0000</b>	<b>37.0643</b>	<b>37.0643</b>	<b>0.0120</b>	<b>0.0000</b>	<b>37.3639</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7000e-003	0.0500	0.0138	1.5000e-004	4.0600e-003	1.9000e-004	4.2400e-003	1.1700e-003	1.8000e-004	1.3500e-003	0.0000	14.4604	14.4604	6.3000e-004	0.0000	14.4762
Worker	1.6300e-003	1.2900e-003	0.0119	3.0000e-005	3.6500e-003	2.0000e-005	3.6700e-003	9.7000e-004	2.0000e-005	9.9000e-004	0.0000	2.8816	2.8816	8.0000e-005	0.0000	2.8837
<b>Total</b>	<b>3.3300e-003</b>	<b>0.0513</b>	<b>0.0256</b>	<b>1.8000e-004</b>	<b>7.7100e-003</b>	<b>2.1000e-004</b>	<b>7.9100e-003</b>	<b>2.1400e-003</b>	<b>2.0000e-004</b>	<b>2.3400e-003</b>	<b>0.0000</b>	<b>17.3420</b>	<b>17.3420</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>17.3599</b>

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**3.12 70-kV Substation Foundation Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0200	0.1940	0.1823	4.2000e-004		0.0107	0.0107		9.8100e-003	9.8100e-003	0.0000	37.0642	37.0642	0.0120	0.0000	37.3639
<b>Total</b>	<b>0.0200</b>	<b>0.1940</b>	<b>0.1823</b>	<b>4.2000e-004</b>		<b>0.0107</b>	<b>0.0107</b>		<b>9.8100e-003</b>	<b>9.8100e-003</b>	<b>0.0000</b>	<b>37.0642</b>	<b>37.0642</b>	<b>0.0120</b>	<b>0.0000</b>	<b>37.3639</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7000e-003	0.0500	0.0138	1.5000e-004	4.0600e-003	1.9000e-004	4.2400e-003	1.1700e-003	1.8000e-004	1.3500e-003	0.0000	14.4604	14.4604	6.3000e-004	0.0000	14.4762
Worker	1.6300e-003	1.2900e-003	0.0119	3.0000e-005	3.6500e-003	2.0000e-005	3.6700e-003	9.7000e-004	2.0000e-005	9.9000e-004	0.0000	2.8816	2.8816	8.0000e-005	0.0000	2.8837
<b>Total</b>	<b>3.3300e-003</b>	<b>0.0513</b>	<b>0.0256</b>	<b>1.8000e-004</b>	<b>7.7100e-003</b>	<b>2.1000e-004</b>	<b>7.9100e-003</b>	<b>2.1400e-003</b>	<b>2.0000e-004</b>	<b>2.3400e-003</b>	<b>0.0000</b>	<b>17.3420</b>	<b>17.3420</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>17.3599</b>

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**3.13 70-kV Substation Ground Grid Conduit Installation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0105	0.1005	0.0961	1.3000e-004		6.5500e-003	6.5500e-003		6.0300e-003	6.0300e-003	0.0000	11.3264	11.3264	3.6600e-003	0.0000	11.4180
<b>Total</b>	<b>0.0105</b>	<b>0.1005</b>	<b>0.0961</b>	<b>1.3000e-004</b>		<b>6.5500e-003</b>	<b>6.5500e-003</b>		<b>6.0300e-003</b>	<b>6.0300e-003</b>	<b>0.0000</b>	<b>11.3264</b>	<b>11.3264</b>	<b>3.6600e-003</b>	<b>0.0000</b>	<b>11.4180</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1800e-003	0.0346	9.5400e-003	1.0000e-004	2.8100e-003	1.3000e-004	2.9400e-003	8.1000e-004	1.2000e-004	9.3000e-004	0.0000	10.0110	10.0110	4.4000e-004	0.0000	10.0220
Worker	8.9000e-004	7.0000e-004	6.4600e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.5718	1.5718	5.0000e-005	0.0000	1.5730
<b>Total</b>	<b>2.0700e-003</b>	<b>0.0353</b>	<b>0.0160</b>	<b>1.2000e-004</b>	<b>4.8000e-003</b>	<b>1.4000e-004</b>	<b>4.9400e-003</b>	<b>1.3400e-003</b>	<b>1.3000e-004</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>11.5828</b>	<b>11.5828</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>11.5949</b>



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**3.13 70-kV Substation Ground Grid Conduit Installation - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0105	0.1005	0.0961	1.3000e-004		6.5500e-003	6.5500e-003		6.0300e-003	6.0300e-003	0.0000	11.3264	11.3264	3.6600e-003	0.0000	11.4180
<b>Total</b>	<b>0.0105</b>	<b>0.1005</b>	<b>0.0961</b>	<b>1.3000e-004</b>		<b>6.5500e-003</b>	<b>6.5500e-003</b>		<b>6.0300e-003</b>	<b>6.0300e-003</b>	<b>0.0000</b>	<b>11.3264</b>	<b>11.3264</b>	<b>3.6600e-003</b>	<b>0.0000</b>	<b>11.4180</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1800e-003	0.0346	9.5400e-003	1.0000e-004	2.8100e-003	1.3000e-004	2.9400e-003	8.1000e-004	1.2000e-004	9.3000e-004	0.0000	10.0110	10.0110	4.4000e-004	0.0000	10.0220
Worker	8.9000e-004	7.0000e-004	6.4600e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.5718	1.5718	5.0000e-005	0.0000	1.5730
<b>Total</b>	<b>2.0700e-003</b>	<b>0.0353</b>	<b>0.0160</b>	<b>1.2000e-004</b>	<b>4.8000e-003</b>	<b>1.4000e-004</b>	<b>4.9400e-003</b>	<b>1.3400e-003</b>	<b>1.3000e-004</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>11.5828</b>	<b>11.5828</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>11.5949</b>

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**3.14 230-kV Substation Ground Grid Conduit Installation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.3700e-003	0.0406	0.0312	4.0000e-005		2.8700e-003	2.8700e-003		2.6400e-003	2.6400e-003	0.0000	3.5592	3.5592	1.1500e-003	0.0000	3.5880
<b>Total</b>	<b>4.3700e-003</b>	<b>0.0406</b>	<b>0.0312</b>	<b>4.0000e-005</b>		<b>2.8700e-003</b>	<b>2.8700e-003</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>	<b>0.0000</b>	<b>3.5592</b>	<b>3.5592</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>3.5880</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1000e-004	0.0218	6.4200e-003	3.0000e-005	3.0000e-004	3.0000e-005	3.2000e-004	9.0000e-005	3.0000e-005	1.1000e-004	0.0000	2.5209	2.5209	2.6000e-004	0.0000	2.5274
Worker	4.3000e-004	3.4000e-004	3.1100e-003	1.0000e-005	9.8000e-004	1.0000e-005	9.8000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7684	0.7684	2.0000e-005	0.0000	0.7690
<b>Total</b>	<b>1.0400e-003</b>	<b>0.0221</b>	<b>9.5300e-003</b>	<b>4.0000e-005</b>	<b>1.2800e-003</b>	<b>4.0000e-005</b>	<b>1.3000e-003</b>	<b>3.5000e-004</b>	<b>4.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>3.2893</b>	<b>3.2893</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>3.2964</b>

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**3.14 230-kV Substation Ground Grid Conduit Installation - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.3700e-003	0.0406	0.0312	4.0000e-005		2.8700e-003	2.8700e-003		2.6400e-003	2.6400e-003	0.0000	3.5592	3.5592	1.1500e-003	0.0000	3.5880
<b>Total</b>	<b>4.3700e-003</b>	<b>0.0406</b>	<b>0.0312</b>	<b>4.0000e-005</b>		<b>2.8700e-003</b>	<b>2.8700e-003</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>	<b>0.0000</b>	<b>3.5592</b>	<b>3.5592</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>3.5880</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1000e-004	0.0218	6.4200e-003	3.0000e-005	3.0000e-004	3.0000e-005	3.2000e-004	9.0000e-005	3.0000e-005	1.1000e-004	0.0000	2.5209	2.5209	2.6000e-004	0.0000	2.5274
Worker	4.3000e-004	3.4000e-004	3.1100e-003	1.0000e-005	9.8000e-004	1.0000e-005	9.8000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7684	0.7684	2.0000e-005	0.0000	0.7690
<b>Total</b>	<b>1.0400e-003</b>	<b>0.0221</b>	<b>9.5300e-003</b>	<b>4.0000e-005</b>	<b>1.2800e-003</b>	<b>4.0000e-005</b>	<b>1.3000e-003</b>	<b>3.5000e-004</b>	<b>4.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>3.2893</b>	<b>3.2893</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>3.2964</b>

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**3.15 230-kV Substation Steel Bus Erection - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5500e-003	0.0443	0.0417	1.4000e-004		1.5400e-003	1.5400e-003		1.4100e-003	1.4100e-003	0.0000	12.6916	12.6916	4.1000e-003	0.0000	12.7943
<b>Total</b>	<b>5.5500e-003</b>	<b>0.0443</b>	<b>0.0417</b>	<b>1.4000e-004</b>		<b>1.5400e-003</b>	<b>1.5400e-003</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>	<b>0.0000</b>	<b>12.6916</b>	<b>12.6916</b>	<b>4.1000e-003</b>	<b>0.0000</b>	<b>12.7943</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.4000e-004	0.0193	5.6900e-003	3.0000e-005	3.3000e-004	3.0000e-005	3.6000e-004	1.0000e-004	3.0000e-005	1.2000e-004	0.0000	2.4231	2.4231	2.3000e-004	0.0000	2.4289
Worker	3.7000e-004	2.9000e-004	2.6800e-003	1.0000e-005	8.5000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.3000e-004	0.0000	0.6680	0.6680	2.0000e-005	0.0000	0.6685
<b>Total</b>	<b>9.1000e-004</b>	<b>0.0196</b>	<b>8.3700e-003</b>	<b>4.0000e-005</b>	<b>1.1800e-003</b>	<b>4.0000e-005</b>	<b>1.2200e-003</b>	<b>3.3000e-004</b>	<b>4.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.0911</b>	<b>3.0911</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.0974</b>

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**3.15 230-kV Substation Steel Bus Erection - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5500e-003	0.0443	0.0417	1.4000e-004		1.5400e-003	1.5400e-003		1.4100e-003	1.4100e-003	0.0000	12.6916	12.6916	4.1000e-003	0.0000	12.7943
<b>Total</b>	<b>5.5500e-003</b>	<b>0.0443</b>	<b>0.0417</b>	<b>1.4000e-004</b>		<b>1.5400e-003</b>	<b>1.5400e-003</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>	<b>0.0000</b>	<b>12.6916</b>	<b>12.6916</b>	<b>4.1000e-003</b>	<b>0.0000</b>	<b>12.7943</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.4000e-004	0.0193	5.6900e-003	3.0000e-005	3.3000e-004	3.0000e-005	3.6000e-004	1.0000e-004	3.0000e-005	1.2000e-004	0.0000	2.4231	2.4231	2.3000e-004	0.0000	2.4289
Worker	3.7000e-004	2.9000e-004	2.6800e-003	1.0000e-005	8.5000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.3000e-004	0.0000	0.6680	0.6680	2.0000e-005	0.0000	0.6685
<b>Total</b>	<b>9.1000e-004</b>	<b>0.0196</b>	<b>8.3700e-003</b>	<b>4.0000e-005</b>	<b>1.1800e-003</b>	<b>4.0000e-005</b>	<b>1.2200e-003</b>	<b>3.3000e-004</b>	<b>4.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.0911</b>	<b>3.0911</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.0974</b>

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**3.15 230-kV Substation Steel Bus Erection - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0600e-003	7.9200e-003	8.1900e-003	3.0000e-005		2.7000e-004	2.7000e-004		2.5000e-004	2.5000e-004	0.0000	2.5400	2.5400	8.2000e-004	0.0000	2.5605
<b>Total</b>	<b>1.0600e-003</b>	<b>7.9200e-003</b>	<b>8.1900e-003</b>	<b>3.0000e-005</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.5400</b>	<b>2.5400</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.5605</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	3.4100e-003	1.0000e-003	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.4797	0.4797	4.0000e-005	0.0000	0.4807
Worker	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1286	0.1286	0.0000	0.0000	0.1287
<b>Total</b>	<b>1.5000e-004</b>	<b>3.4600e-003</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.6083</b>	<b>0.6083</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6094</b>

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**3.15 230-kV Substation Steel Bus Erection - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0600e-003	7.9200e-003	8.1900e-003	3.0000e-005		2.7000e-004	2.7000e-004		2.5000e-004	2.5000e-004	0.0000	2.5400	2.5400	8.2000e-004	0.0000	2.5605
<b>Total</b>	<b>1.0600e-003</b>	<b>7.9200e-003</b>	<b>8.1900e-003</b>	<b>3.0000e-005</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.5400</b>	<b>2.5400</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.5605</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	3.4100e-003	1.0000e-003	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.4797	0.4797	4.0000e-005	0.0000	0.4807
Worker	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1286	0.1286	0.0000	0.0000	0.1287
<b>Total</b>	<b>1.5000e-004</b>	<b>3.4600e-003</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.6083</b>	<b>0.6083</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6094</b>

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**3.16 230-kV Substation Install Yard Rock - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.9900e-003	0.0247	0.0237	8.0000e-005		9.0000e-004	9.0000e-004		8.3000e-004	8.3000e-004	0.0000	6.7103	6.7103	2.1700e-003	0.0000	6.7646
<b>Total</b>	<b>2.9900e-003</b>	<b>0.0247</b>	<b>0.0237</b>	<b>8.0000e-005</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>		<b>8.3000e-004</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>6.7103</b>	<b>6.7103</b>	<b>2.1700e-003</b>	<b>0.0000</b>	<b>6.7646</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.8000e-004	0.0208	5.8200e-003	6.0000e-005	1.4200e-003	7.0000e-005	1.4800e-003	4.1000e-004	7.0000e-005	4.7000e-004	0.0000	5.3217	5.3217	2.6000e-004	0.0000	5.3282
Worker	2.1000e-004	1.7000e-004	1.5300e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3769	0.3769	1.0000e-005	0.0000	0.3772
<b>Total</b>	<b>8.9000e-004</b>	<b>0.0210</b>	<b>7.3500e-003</b>	<b>6.0000e-005</b>	<b>1.9000e-003</b>	<b>7.0000e-005</b>	<b>1.9600e-003</b>	<b>5.4000e-004</b>	<b>7.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>5.6986</b>	<b>5.6986</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>5.7054</b>



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**3.16 230-kV Substation Install Yard Rock - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.9900e-003	0.0247	0.0237	8.0000e-005		9.0000e-004	9.0000e-004		8.3000e-004	8.3000e-004	0.0000	6.7103	6.7103	2.1700e-003	0.0000	6.7646
<b>Total</b>	<b>2.9900e-003</b>	<b>0.0247</b>	<b>0.0237</b>	<b>8.0000e-005</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>		<b>8.3000e-004</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>6.7103</b>	<b>6.7103</b>	<b>2.1700e-003</b>	<b>0.0000</b>	<b>6.7646</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.8000e-004	0.0208	5.8200e-003	6.0000e-005	1.4200e-003	7.0000e-005	1.4800e-003	4.1000e-004	7.0000e-005	4.7000e-004	0.0000	5.3217	5.3217	2.6000e-004	0.0000	5.3282
Worker	2.1000e-004	1.7000e-004	1.5300e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3769	0.3769	1.0000e-005	0.0000	0.3772
<b>Total</b>	<b>8.9000e-004</b>	<b>0.0210</b>	<b>7.3500e-003</b>	<b>6.0000e-005</b>	<b>1.9000e-003</b>	<b>7.0000e-005</b>	<b>1.9600e-003</b>	<b>5.4000e-004</b>	<b>7.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>5.6986</b>	<b>5.6986</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>5.7054</b>

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**3.16 230-kV Substation Install Yard Rock - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.5600e-003	0.0277	0.0292	1.0000e-004		9.9000e-004	9.9000e-004		9.1000e-004	9.1000e-004	0.0000	8.3936	8.3936	2.7100e-003	0.0000	8.4615
<b>Total</b>	<b>3.5600e-003</b>	<b>0.0277</b>	<b>0.0292</b>	<b>1.0000e-004</b>		<b>9.9000e-004</b>	<b>9.9000e-004</b>		<b>9.1000e-004</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>8.3936</b>	<b>8.3936</b>	<b>2.7100e-003</b>	<b>0.0000</b>	<b>8.4615</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5000e-004	0.0206	6.4000e-003	7.0000e-005	1.7700e-003	4.0000e-005	1.8100e-003	5.1000e-004	4.0000e-005	5.5000e-004	0.0000	6.5317	6.5317	3.0000e-004	0.0000	6.5391
Worker	2.5000e-004	1.9000e-004	1.7500e-003	1.0000e-005	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4535	0.4535	1.0000e-005	0.0000	0.4538
<b>Total</b>	<b>9.0000e-004</b>	<b>0.0208</b>	<b>8.1500e-003</b>	<b>8.0000e-005</b>	<b>2.3700e-003</b>	<b>4.0000e-005</b>	<b>2.4100e-003</b>	<b>6.7000e-004</b>	<b>4.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>6.9852</b>	<b>6.9852</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>6.9929</b>

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**3.16 230-kV Substation Install Yard Rock - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.5600e-003	0.0277	0.0292	1.0000e-004		9.9000e-004	9.9000e-004		9.1000e-004	9.1000e-004	0.0000	8.3936	8.3936	2.7100e-003	0.0000	8.4614
<b>Total</b>	<b>3.5600e-003</b>	<b>0.0277</b>	<b>0.0292</b>	<b>1.0000e-004</b>		<b>9.9000e-004</b>	<b>9.9000e-004</b>		<b>9.1000e-004</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>8.3936</b>	<b>8.3936</b>	<b>2.7100e-003</b>	<b>0.0000</b>	<b>8.4614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5000e-004	0.0206	6.4000e-003	7.0000e-005	1.7700e-003	4.0000e-005	1.8100e-003	5.1000e-004	4.0000e-005	5.5000e-004	0.0000	6.5317	6.5317	3.0000e-004	0.0000	6.5391
Worker	2.5000e-004	1.9000e-004	1.7500e-003	1.0000e-005	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4535	0.4535	1.0000e-005	0.0000	0.4538
<b>Total</b>	<b>9.0000e-004</b>	<b>0.0208</b>	<b>8.1500e-003</b>	<b>8.0000e-005</b>	<b>2.3700e-003</b>	<b>4.0000e-005</b>	<b>2.4100e-003</b>	<b>6.7000e-004</b>	<b>4.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>6.9852</b>	<b>6.9852</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>6.9929</b>

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**3.17 70-kV Substation Steel Bus Erection - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0107	0.0832	0.0921	3.0000e-004		2.7500e-003	2.7500e-003		2.5300e-003	2.5300e-003	0.0000	26.4162	26.4162	8.5400e-003	0.0000	26.6298
<b>Total</b>	<b>0.0107</b>	<b>0.0832</b>	<b>0.0921</b>	<b>3.0000e-004</b>		<b>2.7500e-003</b>	<b>2.7500e-003</b>		<b>2.5300e-003</b>	<b>2.5300e-003</b>	<b>0.0000</b>	<b>26.4162</b>	<b>26.4162</b>	<b>8.5400e-003</b>	<b>0.0000</b>	<b>26.6298</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3000e-004	0.0131	4.1300e-003	5.0000e-005	1.3800e-003	3.0000e-005	1.4100e-003	4.0000e-004	3.0000e-005	4.3000e-004	0.0000	4.8179	4.8179	2.0000e-004	0.0000	4.8228
Worker	4.3000e-004	3.2000e-004	3.0400e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7565	0.7565	2.0000e-005	0.0000	0.7571
<b>Total</b>	<b>8.6000e-004</b>	<b>0.0134</b>	<b>7.1700e-003</b>	<b>6.0000e-005</b>	<b>2.3700e-003</b>	<b>4.0000e-005</b>	<b>2.4100e-003</b>	<b>6.6000e-004</b>	<b>4.0000e-005</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>5.5744</b>	<b>5.5744</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>5.5799</b>

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**3.17 70-kV Substation Steel Bus Erection - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0107	0.0832	0.0921	3.0000e-004		2.7500e-003	2.7500e-003		2.5300e-003	2.5300e-003	0.0000	26.4161	26.4161	8.5400e-003	0.0000	26.6297
<b>Total</b>	<b>0.0107</b>	<b>0.0832</b>	<b>0.0921</b>	<b>3.0000e-004</b>		<b>2.7500e-003</b>	<b>2.7500e-003</b>		<b>2.5300e-003</b>	<b>2.5300e-003</b>	<b>0.0000</b>	<b>26.4161</b>	<b>26.4161</b>	<b>8.5400e-003</b>	<b>0.0000</b>	<b>26.6297</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3000e-004	0.0131	4.1300e-003	5.0000e-005	1.3800e-003	3.0000e-005	1.4100e-003	4.0000e-004	3.0000e-005	4.3000e-004	0.0000	4.8179	4.8179	2.0000e-004	0.0000	4.8228
Worker	4.3000e-004	3.2000e-004	3.0400e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7565	0.7565	2.0000e-005	0.0000	0.7571
<b>Total</b>	<b>8.6000e-004</b>	<b>0.0134</b>	<b>7.1700e-003</b>	<b>6.0000e-005</b>	<b>2.3700e-003</b>	<b>4.0000e-005</b>	<b>2.4100e-003</b>	<b>6.6000e-004</b>	<b>4.0000e-005</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>5.5744</b>	<b>5.5744</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>5.5799</b>

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**3.18 230-kV Substation Transformer & Equip Delivery & Installation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0274	0.2029	0.2041	7.0000e-004		7.7700e-003	7.7700e-003		7.2400e-003	7.2400e-003	0.0000	61.3416	61.3416	0.0184	0.0000	61.8006
<b>Total</b>	<b>0.0274</b>	<b>0.2029</b>	<b>0.2041</b>	<b>7.0000e-004</b>		<b>7.7700e-003</b>	<b>7.7700e-003</b>		<b>7.2400e-003</b>	<b>7.2400e-003</b>	<b>0.0000</b>	<b>61.3416</b>	<b>61.3416</b>	<b>0.0184</b>	<b>0.0000</b>	<b>61.8006</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3000e-004	0.0255	7.4400e-003	4.0000e-005	4.8000e-004	2.0000e-005	5.0000e-004	1.4000e-004	2.0000e-005	1.6000e-004	0.0000	3.5344	3.5344	2.9000e-004	0.0000	3.5417
Worker	7.1000e-004	5.4000e-004	5.0400e-003	1.0000e-005	1.7000e-003	1.0000e-005	1.7200e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.2948	1.2948	4.0000e-005	0.0000	1.2957
<b>Total</b>	<b>1.3400e-003</b>	<b>0.0260</b>	<b>0.0125</b>	<b>5.0000e-005</b>	<b>2.1800e-003</b>	<b>3.0000e-005</b>	<b>2.2200e-003</b>	<b>5.9000e-004</b>	<b>3.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>4.8292</b>	<b>4.8292</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>4.8374</b>

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**3.18 230-kV Substation Transformer & Equip Delivery & Installation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0274	0.2029	0.2041	7.0000e-004		7.7700e-003	7.7700e-003		7.2400e-003	7.2400e-003	0.0000	61.3416	61.3416	0.0184	0.0000	61.8005
<b>Total</b>	<b>0.0274</b>	<b>0.2029</b>	<b>0.2041</b>	<b>7.0000e-004</b>		<b>7.7700e-003</b>	<b>7.7700e-003</b>		<b>7.2400e-003</b>	<b>7.2400e-003</b>	<b>0.0000</b>	<b>61.3416</b>	<b>61.3416</b>	<b>0.0184</b>	<b>0.0000</b>	<b>61.8005</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3000e-004	0.0255	7.4400e-003	4.0000e-005	4.8000e-004	2.0000e-005	5.0000e-004	1.4000e-004	2.0000e-005	1.6000e-004	0.0000	3.5344	3.5344	2.9000e-004	0.0000	3.5417
Worker	7.1000e-004	5.4000e-004	5.0400e-003	1.0000e-005	1.7000e-003	1.0000e-005	1.7200e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.2948	1.2948	4.0000e-005	0.0000	1.2957
<b>Total</b>	<b>1.3400e-003</b>	<b>0.0260</b>	<b>0.0125</b>	<b>5.0000e-005</b>	<b>2.1800e-003</b>	<b>3.0000e-005</b>	<b>2.2200e-003</b>	<b>5.9000e-004</b>	<b>3.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>4.8292</b>	<b>4.8292</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>4.8374</b>

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**3.19 230-kV Substation Control Enclosure Delivery and Install - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5800e-003	0.0172	8.2500e-003	3.0000e-005		7.2000e-004	7.2000e-004		6.6000e-004	6.6000e-004	0.0000	2.2813	2.2813	7.4000e-004	0.0000	2.2997
<b>Total</b>	<b>1.5800e-003</b>	<b>0.0172</b>	<b>8.2500e-003</b>	<b>3.0000e-005</b>		<b>7.2000e-004</b>	<b>7.2000e-004</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>2.2813</b>	<b>2.2813</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>2.2997</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.3400e-003	4.2000e-004	1.0000e-005	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4941	0.4941	2.0000e-005	0.0000	0.4947
Worker	2.1000e-004	1.6000e-004	1.5200e-003	0.0000	5.3000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4030	0.4030	1.0000e-005	0.0000	0.4032
<b>Total</b>	<b>2.5000e-004</b>	<b>1.5000e-003</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>6.8000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.8971</b>	<b>0.8971</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.8979</b>



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**3.19 230-kV Substation Control Enclosure Delivery and Install - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5800e-003	0.0172	8.2500e-003	3.0000e-005		7.2000e-004	7.2000e-004		6.6000e-004	6.6000e-004	0.0000	2.2813	2.2813	7.4000e-004	0.0000	2.2997
<b>Total</b>	<b>1.5800e-003</b>	<b>0.0172</b>	<b>8.2500e-003</b>	<b>3.0000e-005</b>		<b>7.2000e-004</b>	<b>7.2000e-004</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>2.2813</b>	<b>2.2813</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>2.2997</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.3400e-003	4.2000e-004	1.0000e-005	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4941	0.4941	2.0000e-005	0.0000	0.4947
Worker	2.1000e-004	1.6000e-004	1.5200e-003	0.0000	5.3000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4030	0.4030	1.0000e-005	0.0000	0.4032
<b>Total</b>	<b>2.5000e-004</b>	<b>1.5000e-003</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>6.8000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.8971</b>	<b>0.8971</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.8979</b>

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**3.20 230-kV Substation Remaining Equipment Delivery and Install - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.9100e-003	0.0348	0.0321	1.3000e-004		1.2600e-003	1.2600e-003		1.1600e-003	1.1600e-003	0.0000	11.3207	11.3207	3.6600e-003	0.0000	11.4122
<b>Total</b>	<b>4.9100e-003</b>	<b>0.0348</b>	<b>0.0321</b>	<b>1.3000e-004</b>		<b>1.2600e-003</b>	<b>1.2600e-003</b>		<b>1.1600e-003</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>11.3207</b>	<b>11.3207</b>	<b>3.6600e-003</b>	<b>0.0000</b>	<b>11.4122</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2000e-004	0.0209	6.1300e-003	3.0000e-005	4.5000e-004	2.0000e-005	4.7000e-004	1.3000e-004	2.0000e-005	1.5000e-004	0.0000	3.0534	3.0534	2.4000e-004	0.0000	3.0595
Worker	3.5000e-004	2.7000e-004	2.4700e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.6548	0.6548	2.0000e-005	0.0000	0.6552
<b>Total</b>	<b>8.7000e-004</b>	<b>0.0212</b>	<b>8.6000e-003</b>	<b>4.0000e-005</b>	<b>1.3200e-003</b>	<b>3.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>2.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>3.7082</b>	<b>3.7082</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>3.7147</b>

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**3.20 230-kV Substation Remaining Equipment Delivery and Install - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.9100e-003	0.0348	0.0321	1.3000e-004		1.2600e-003	1.2600e-003		1.1600e-003	1.1600e-003	0.0000	11.3207	11.3207	3.6600e-003	0.0000	11.4122
<b>Total</b>	<b>4.9100e-003</b>	<b>0.0348</b>	<b>0.0321</b>	<b>1.3000e-004</b>		<b>1.2600e-003</b>	<b>1.2600e-003</b>		<b>1.1600e-003</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>11.3207</b>	<b>11.3207</b>	<b>3.6600e-003</b>	<b>0.0000</b>	<b>11.4122</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2000e-004	0.0209	6.1300e-003	3.0000e-005	4.5000e-004	2.0000e-005	4.7000e-004	1.3000e-004	2.0000e-005	1.5000e-004	0.0000	3.0534	3.0534	2.4000e-004	0.0000	3.0595
Worker	3.5000e-004	2.7000e-004	2.4700e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.6548	0.6548	2.0000e-005	0.0000	0.6552
<b>Total</b>	<b>8.7000e-004</b>	<b>0.0212</b>	<b>8.6000e-003</b>	<b>4.0000e-005</b>	<b>1.3200e-003</b>	<b>3.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>2.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>3.7082</b>	<b>3.7082</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>3.7147</b>

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**3.21 230-kV Transmission Conductor - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4000e-003	0.0472	0.0321	1.2000e-004		1.8500e-003	1.8500e-003		1.7000e-003	1.7000e-003	0.0000	10.3885	10.3885	3.3600e-003	0.0000	10.4725
<b>Total</b>	<b>5.4000e-003</b>	<b>0.0472</b>	<b>0.0321</b>	<b>1.2000e-004</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.7000e-003</b>	<b>1.7000e-003</b>	<b>0.0000</b>	<b>10.3885</b>	<b>10.3885</b>	<b>3.3600e-003</b>	<b>0.0000</b>	<b>10.4725</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	3.6900e-003	1.1600e-003	1.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.3589	1.3589	6.0000e-005	0.0000	1.3603
Worker	3.4000e-004	2.6000e-004	2.4100e-003	1.0000e-005	8.4000e-004	1.0000e-005	8.5000e-004	2.2000e-004	0.0000	2.3000e-004	0.0000	0.6380	0.6380	2.0000e-005	0.0000	0.6384
<b>Total</b>	<b>4.6000e-004</b>	<b>3.9500e-003</b>	<b>3.5700e-003</b>	<b>2.0000e-005</b>	<b>1.2300e-003</b>	<b>2.0000e-005</b>	<b>1.2500e-003</b>	<b>3.3000e-004</b>	<b>1.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.9969</b>	<b>1.9969</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.9987</b>

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**3.21 230-kV Transmission Conductor - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4000e-003	0.0472	0.0321	1.2000e-004		1.8500e-003	1.8500e-003		1.7000e-003	1.7000e-003	0.0000	10.3885	10.3885	3.3600e-003	0.0000	10.4725
<b>Total</b>	<b>5.4000e-003</b>	<b>0.0472</b>	<b>0.0321</b>	<b>1.2000e-004</b>		<b>1.8500e-003</b>	<b>1.8500e-003</b>		<b>1.7000e-003</b>	<b>1.7000e-003</b>	<b>0.0000</b>	<b>10.3885</b>	<b>10.3885</b>	<b>3.3600e-003</b>	<b>0.0000</b>	<b>10.4725</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	3.6900e-003	1.1600e-003	1.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.3589	1.3589	6.0000e-005	0.0000	1.3603
Worker	3.4000e-004	2.6000e-004	2.4100e-003	1.0000e-005	8.4000e-004	1.0000e-005	8.5000e-004	2.2000e-004	0.0000	2.3000e-004	0.0000	0.6380	0.6380	2.0000e-005	0.0000	0.6384
<b>Total</b>	<b>4.6000e-004</b>	<b>3.9500e-003</b>	<b>3.5700e-003</b>	<b>2.0000e-005</b>	<b>1.2300e-003</b>	<b>2.0000e-005</b>	<b>1.2500e-003</b>	<b>3.3000e-004</b>	<b>1.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.9969</b>	<b>1.9969</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.9987</b>

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**3.22 70-kV Substation Equip Delivery & Installation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3100e-003	0.0260	0.0293	9.0000e-005		8.5000e-004	8.5000e-004		7.8000e-004	7.8000e-004	0.0000	8.2297	8.2297	2.6600e-003	0.0000	8.2962
<b>Total</b>	<b>3.3100e-003</b>	<b>0.0260</b>	<b>0.0293</b>	<b>9.0000e-005</b>		<b>8.5000e-004</b>	<b>8.5000e-004</b>		<b>7.8000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>8.2297</b>	<b>8.2297</b>	<b>2.6600e-003</b>	<b>0.0000</b>	<b>8.2962</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	0.0121	3.8100e-003	5.0000e-005	1.2700e-003	3.0000e-005	1.3000e-003	3.7000e-004	3.0000e-005	3.9000e-004	0.0000	4.4473	4.4473	1.8000e-004	0.0000	4.4519
Worker	3.5000e-004	2.6000e-004	2.4900e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6251	0.6251	2.0000e-005	0.0000	0.6255
<b>Total</b>	<b>7.5000e-004</b>	<b>0.0123</b>	<b>6.3000e-003</b>	<b>6.0000e-005</b>	<b>2.0900e-003</b>	<b>4.0000e-005</b>	<b>2.1200e-003</b>	<b>5.9000e-004</b>	<b>3.0000e-005</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>5.0724</b>	<b>5.0724</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>5.0774</b>

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**3.22 70-kV Substation Equip Delivery & Installation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3100e-003	0.0260	0.0293	9.0000e-005		8.5000e-004	8.5000e-004		7.8000e-004	7.8000e-004	0.0000	8.2297	8.2297	2.6600e-003	0.0000	8.2962
<b>Total</b>	<b>3.3100e-003</b>	<b>0.0260</b>	<b>0.0293</b>	<b>9.0000e-005</b>		<b>8.5000e-004</b>	<b>8.5000e-004</b>		<b>7.8000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>8.2297</b>	<b>8.2297</b>	<b>2.6600e-003</b>	<b>0.0000</b>	<b>8.2962</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	0.0121	3.8100e-003	5.0000e-005	1.2700e-003	3.0000e-005	1.3000e-003	3.7000e-004	3.0000e-005	3.9000e-004	0.0000	4.4473	4.4473	1.8000e-004	0.0000	4.4519
Worker	3.5000e-004	2.6000e-004	2.4900e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6251	0.6251	2.0000e-005	0.0000	0.6255
<b>Total</b>	<b>7.5000e-004</b>	<b>0.0123</b>	<b>6.3000e-003</b>	<b>6.0000e-005</b>	<b>2.0900e-003</b>	<b>4.0000e-005</b>	<b>2.1200e-003</b>	<b>5.9000e-004</b>	<b>3.0000e-005</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>5.0724</b>	<b>5.0724</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>5.0774</b>

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**3.23 70-kV Substation Control Enclosure Delivery and Install - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.7000e-004	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2471	0.2471	1.0000e-005	0.0000	0.2473
Worker	1.0000e-004	8.0000e-005	7.1000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1865	0.1865	1.0000e-005	0.0000	0.1866
<b>Total</b>	<b>1.2000e-004</b>	<b>7.5000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.4335</b>	<b>0.4335</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4339</b>



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**3.23 70-kV Substation Control Enclosure Delivery and Install - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.7000e-004	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2471	0.2471	1.0000e-005	0.0000	0.2473
Worker	1.0000e-004	8.0000e-005	7.1000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1865	0.1865	1.0000e-005	0.0000	0.1866
<b>Total</b>	<b>1.2000e-004</b>	<b>7.5000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.4335</b>	<b>0.4335</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4339</b>

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**3.24 230-kV Transmission Site Clean-up and Restoration - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3800e-003	0.0163	8.4200e-003	2.0000e-005		5.7000e-004	5.7000e-004		5.2000e-004	5.2000e-004	0.0000	2.1545	2.1545	7.0000e-004	0.0000	2.1719
<b>Total</b>	<b>1.3800e-003</b>	<b>0.0163</b>	<b>8.4200e-003</b>	<b>2.0000e-005</b>		<b>5.7000e-004</b>	<b>5.7000e-004</b>		<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>2.1545</b>	<b>2.1545</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>2.1719</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.0200e-003	9.5000e-004	1.0000e-005	3.2000e-004	1.0000e-005	3.2000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	1.1118	1.1118	5.0000e-005	0.0000	1.1130
Worker	1.2000e-004	1.0000e-004	8.9000e-004	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2351	0.2351	1.0000e-005	0.0000	0.2352
<b>Total</b>	<b>2.2000e-004</b>	<b>3.1200e-003</b>	<b>1.8400e-003</b>	<b>1.0000e-005</b>	<b>6.3000e-004</b>	<b>1.0000e-005</b>	<b>6.3000e-004</b>	<b>1.7000e-004</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.3469</b>	<b>1.3469</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.3482</b>

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**3.24 230-kV Transmission Site Clean-up and Restoration - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3800e-003	0.0163	8.4200e-003	2.0000e-005		5.7000e-004	5.7000e-004		5.2000e-004	5.2000e-004	0.0000	2.1545	2.1545	7.0000e-004	0.0000	2.1719
<b>Total</b>	<b>1.3800e-003</b>	<b>0.0163</b>	<b>8.4200e-003</b>	<b>2.0000e-005</b>		<b>5.7000e-004</b>	<b>5.7000e-004</b>		<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>2.1545</b>	<b>2.1545</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>2.1719</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.0200e-003	9.5000e-004	1.0000e-005	3.2000e-004	1.0000e-005	3.2000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	1.1118	1.1118	5.0000e-005	0.0000	1.1130
Worker	1.2000e-004	1.0000e-004	8.9000e-004	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2351	0.2351	1.0000e-005	0.0000	0.2352
<b>Total</b>	<b>2.2000e-004</b>	<b>3.1200e-003</b>	<b>1.8400e-003</b>	<b>1.0000e-005</b>	<b>6.3000e-004</b>	<b>1.0000e-005</b>	<b>6.3000e-004</b>	<b>1.7000e-004</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.3469</b>	<b>1.3469</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.3482</b>

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**3.25 230-kV Substation Cable Installation and Termination - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.0000e-004	3.1500e-003	6.4500e-003	1.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.8711	0.8711	2.8000e-004	0.0000	0.8782
<b>Total</b>	<b>2.0000e-004</b>	<b>3.1500e-003</b>	<b>6.4500e-003</b>	<b>1.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.8711</b>	<b>0.8711</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.8782</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.0100e-003	6.3000e-004	1.0000e-005	2.1000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.7412	0.7412	3.0000e-005	0.0000	0.7420
Worker	1.8000e-004	1.4000e-004	1.2700e-003	0.0000	4.4000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3358	0.3358	1.0000e-005	0.0000	0.3360
<b>Total</b>	<b>2.5000e-004</b>	<b>2.1500e-003</b>	<b>1.9000e-003</b>	<b>1.0000e-005</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>6.7000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.0770</b>	<b>1.0770</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.0780</b>

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**3.25 230-kV Substation Cable Installation and Termination - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.0000e-004	3.1500e-003	6.4500e-003	1.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.8711	0.8711	2.8000e-004	0.0000	0.8782
<b>Total</b>	<b>2.0000e-004</b>	<b>3.1500e-003</b>	<b>6.4500e-003</b>	<b>1.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.8711</b>	<b>0.8711</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.8782</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.0100e-003	6.3000e-004	1.0000e-005	2.1000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.7412	0.7412	3.0000e-005	0.0000	0.7420
Worker	1.8000e-004	1.4000e-004	1.2700e-003	0.0000	4.4000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3358	0.3358	1.0000e-005	0.0000	0.3360
<b>Total</b>	<b>2.5000e-004</b>	<b>2.1500e-003</b>	<b>1.9000e-003</b>	<b>1.0000e-005</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>6.7000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.0770</b>	<b>1.0770</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.0780</b>

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**3.26 230-kV Substation Testing and Commissioning - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4500e-003	0.0436	0.0138	1.7000e-004	4.5900e-003	1.0000e-004	4.6900e-003	1.3300e-003	1.0000e-004	1.4200e-003	0.0000	16.0596	16.0596	6.6000e-004	0.0000	16.0761
Worker	4.1000e-004	3.0000e-004	2.8400e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.6946	0.6946	2.0000e-005	0.0000	0.6951
<b>Total</b>	<b>1.8600e-003</b>	<b>0.0439</b>	<b>0.0166</b>	<b>1.8000e-004</b>	<b>5.5000e-003</b>	<b>1.1000e-004</b>	<b>5.6000e-003</b>	<b>1.5700e-003</b>	<b>1.1000e-004</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>16.7542</b>	<b>16.7542</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>16.7713</b>

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**3.26 230-kV Substation Testing and Commissioning - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4500e-003	0.0436	0.0138	1.7000e-004	4.5900e-003	1.0000e-004	4.6900e-003	1.3300e-003	1.0000e-004	1.4200e-003	0.0000	16.0596	16.0596	6.6000e-004	0.0000	16.0761
Worker	4.1000e-004	3.0000e-004	2.8400e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.6946	0.6946	2.0000e-005	0.0000	0.6951
<b>Total</b>	<b>1.8600e-003</b>	<b>0.0439</b>	<b>0.0166</b>	<b>1.8000e-004</b>	<b>5.5000e-003</b>	<b>1.1000e-004</b>	<b>5.6000e-003</b>	<b>1.5700e-003</b>	<b>1.1000e-004</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>16.7542</b>	<b>16.7542</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>16.7713</b>

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**3.27 70-kV Substation Cable Installation and Termination - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.0200e-003	9.5000e-004	1.0000e-005	3.2000e-004	1.0000e-005	3.2000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	1.1118	1.1118	5.0000e-005	0.0000	1.1130
Worker	2.4000e-004	1.8000e-004	1.6900e-003	0.0000	5.4000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4127	0.4127	1.0000e-005	0.0000	0.4130
<b>Total</b>	<b>3.4000e-004</b>	<b>3.2000e-003</b>	<b>2.6400e-003</b>	<b>1.0000e-005</b>	<b>8.6000e-004</b>	<b>1.0000e-005</b>	<b>8.6000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>1.5245</b>	<b>1.5245</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.5259</b>



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**3.27 70-kV Substation Cable Installation and Termination - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.0200e-003	9.5000e-004	1.0000e-005	3.2000e-004	1.0000e-005	3.2000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	1.1118	1.1118	5.0000e-005	0.0000	1.1130
Worker	2.4000e-004	1.8000e-004	1.6900e-003	0.0000	5.4000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4127	0.4127	1.0000e-005	0.0000	0.4130
<b>Total</b>	<b>3.4000e-004</b>	<b>3.2000e-003</b>	<b>2.6400e-003</b>	<b>1.0000e-005</b>	<b>8.6000e-004</b>	<b>1.0000e-005</b>	<b>8.6000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>1.5245</b>	<b>1.5245</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.5259</b>

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**3.28 70-kV Power Line Site Development Mobilization - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.5400e-003	0.0000	9.5400e-003	1.0300e-003	0.0000	1.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9100e-003	0.0465	0.0219	7.0000e-005		1.5800e-003	1.5800e-003		1.4600e-003	1.4600e-003	0.0000	6.0531	6.0531	1.9600e-003	0.0000	6.1021
<b>Total</b>	<b>3.9100e-003</b>	<b>0.0465</b>	<b>0.0219</b>	<b>7.0000e-005</b>	<b>9.5400e-003</b>	<b>1.5800e-003</b>	<b>0.0111</b>	<b>1.0300e-003</b>	<b>1.4600e-003</b>	<b>2.4900e-003</b>	<b>0.0000</b>	<b>6.0531</b>	<b>6.0531</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>6.1021</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2000e-004	6.7100e-003	2.1200e-003	3.0000e-005	7.1000e-004	2.0000e-005	7.2000e-004	2.0000e-004	1.0000e-005	2.2000e-004	0.0000	2.4707	2.4707	1.0000e-004	0.0000	2.4733
Worker	3.2000e-004	2.4000e-004	2.2700e-003	1.0000e-005	7.7000e-004	0.0000	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.5859	0.5859	2.0000e-005	0.0000	0.5863
<b>Total</b>	<b>5.4000e-004</b>	<b>6.9500e-003</b>	<b>4.3900e-003</b>	<b>4.0000e-005</b>	<b>1.4800e-003</b>	<b>2.0000e-005</b>	<b>1.5000e-003</b>	<b>4.1000e-004</b>	<b>1.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>3.0566</b>	<b>3.0566</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.0595</b>

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**3.28 70-kV Power Line Site Development Mobilization - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.7200e-003	0.0000	3.7200e-003	4.0000e-004	0.0000	4.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9100e-003	0.0465	0.0219	7.0000e-005		1.5800e-003	1.5800e-003		1.4600e-003	1.4600e-003	0.0000	6.0531	6.0531	1.9600e-003	0.0000	6.1021
<b>Total</b>	<b>3.9100e-003</b>	<b>0.0465</b>	<b>0.0219</b>	<b>7.0000e-005</b>	<b>3.7200e-003</b>	<b>1.5800e-003</b>	<b>5.3000e-003</b>	<b>4.0000e-004</b>	<b>1.4600e-003</b>	<b>1.8600e-003</b>	<b>0.0000</b>	<b>6.0531</b>	<b>6.0531</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>6.1021</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2000e-004	6.7100e-003	2.1200e-003	3.0000e-005	7.1000e-004	2.0000e-005	7.2000e-004	2.0000e-004	1.0000e-005	2.2000e-004	0.0000	2.4707	2.4707	1.0000e-004	0.0000	2.4733
Worker	3.2000e-004	2.4000e-004	2.2700e-003	1.0000e-005	7.7000e-004	0.0000	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.5859	0.5859	2.0000e-005	0.0000	0.5863
<b>Total</b>	<b>5.4000e-004</b>	<b>6.9500e-003</b>	<b>4.3900e-003</b>	<b>4.0000e-005</b>	<b>1.4800e-003</b>	<b>2.0000e-005</b>	<b>1.5000e-003</b>	<b>4.1000e-004</b>	<b>1.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>3.0566</b>	<b>3.0566</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.0595</b>

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**3.29 Reconductoring Segment Clean-up and Restoration - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1800e-003	0.0256	0.0143	4.0000e-005		9.1000e-004	9.1000e-004		8.3000e-004	8.3000e-004	0.0000	3.4369	3.4369	1.1100e-003	0.0000	3.4647
<b>Total</b>	<b>2.1800e-003</b>	<b>0.0256</b>	<b>0.0143</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>9.1000e-004</b>	<b>3.3000e-003</b>	<b>2.6000e-004</b>	<b>8.3000e-004</b>	<b>1.0900e-003</b>	<b>0.0000</b>	<b>3.4369</b>	<b>3.4369</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>3.4647</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.3600e-003	1.0600e-003	1.0000e-005	3.5000e-004	1.0000e-005	3.6000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.2354	1.2354	5.0000e-005	0.0000	1.2366
Worker	2.5000e-004	1.9000e-004	1.7500e-003	0.0000	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4463	0.4463	1.0000e-005	0.0000	0.4466
<b>Total</b>	<b>3.6000e-004</b>	<b>3.5500e-003</b>	<b>2.8100e-003</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.6817</b>	<b>1.6817</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.6833</b>

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**3.29 Reconducting Segment Clean-up and Restoration - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.3000e-004	0.0000	9.3000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1800e-003	0.0256	0.0143	4.0000e-005		9.1000e-004	9.1000e-004		8.3000e-004	8.3000e-004	0.0000	3.4369	3.4369	1.1100e-003	0.0000	3.4647
<b>Total</b>	<b>2.1800e-003</b>	<b>0.0256</b>	<b>0.0143</b>	<b>4.0000e-005</b>	<b>9.3000e-004</b>	<b>9.1000e-004</b>	<b>1.8400e-003</b>	<b>1.0000e-004</b>	<b>8.3000e-004</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>3.4369</b>	<b>3.4369</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>3.4647</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.3600e-003	1.0600e-003	1.0000e-005	3.5000e-004	1.0000e-005	3.6000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.2354	1.2354	5.0000e-005	0.0000	1.2366
Worker	2.5000e-004	1.9000e-004	1.7500e-003	0.0000	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4463	0.4463	1.0000e-005	0.0000	0.4466
<b>Total</b>	<b>3.6000e-004</b>	<b>3.5500e-003</b>	<b>2.8100e-003</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.6817</b>	<b>1.6817</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.6833</b>

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**3.30 70-kV Power Line Pole Tower Installation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2259	1.7600	1.6673	5.5700e-003		0.0685	0.0685		0.0630	0.0630	0.0000	489.3626	489.3626	0.1583	0.0000	493.3193
<b>Total</b>	<b>0.2259</b>	<b>1.7600</b>	<b>1.6673</b>	<b>5.5700e-003</b>		<b>0.0685</b>	<b>0.0685</b>		<b>0.0630</b>	<b>0.0630</b>	<b>0.0000</b>	<b>489.3626</b>	<b>489.3626</b>	<b>0.1583</b>	<b>0.0000</b>	<b>493.3193</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5800e-003	0.1980	0.0624	7.5000e-004	0.0208	4.6000e-004	0.0213	6.0200e-003	4.4000e-004	6.4500e-003	0.0000	72.8857	72.8857	3.0100e-003	0.0000	72.9609
Worker	0.0124	9.3100e-003	0.0873	2.5000e-004	0.0292	1.9000e-004	0.0294	7.7700e-003	1.7000e-004	7.9400e-003	0.0000	22.2316	22.2316	6.1000e-004	0.0000	22.2468
<b>Total</b>	<b>0.0190</b>	<b>0.2073</b>	<b>0.1497</b>	<b>1.0000e-003</b>	<b>0.0501</b>	<b>6.5000e-004</b>	<b>0.0507</b>	<b>0.0138</b>	<b>6.1000e-004</b>	<b>0.0144</b>	<b>0.0000</b>	<b>95.1174</b>	<b>95.1174</b>	<b>3.6200e-003</b>	<b>0.0000</b>	<b>95.2077</b>

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**3.30 70-kV Power Line Pole Tower Installation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2259	1.7600	1.6673	5.5700e-003		0.0685	0.0685		0.0630	0.0630	0.0000	489.3620	489.3620	0.1583	0.0000	493.3187
<b>Total</b>	<b>0.2259</b>	<b>1.7600</b>	<b>1.6673</b>	<b>5.5700e-003</b>		<b>0.0685</b>	<b>0.0685</b>		<b>0.0630</b>	<b>0.0630</b>	<b>0.0000</b>	<b>489.3620</b>	<b>489.3620</b>	<b>0.1583</b>	<b>0.0000</b>	<b>493.3187</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5800e-003	0.1980	0.0624	7.5000e-004	0.0208	4.6000e-004	0.0213	6.0200e-003	4.4000e-004	6.4500e-003	0.0000	72.8857	72.8857	3.0100e-003	0.0000	72.9609
Worker	0.0124	9.3100e-003	0.0873	2.5000e-004	0.0292	1.9000e-004	0.0294	7.7700e-003	1.7000e-004	7.9400e-003	0.0000	22.2316	22.2316	6.1000e-004	0.0000	22.2468
<b>Total</b>	<b>0.0190</b>	<b>0.2073</b>	<b>0.1497</b>	<b>1.0000e-003</b>	<b>0.0501</b>	<b>6.5000e-004</b>	<b>0.0507</b>	<b>0.0138</b>	<b>6.1000e-004</b>	<b>0.0144</b>	<b>0.0000</b>	<b>95.1174</b>	<b>95.1174</b>	<b>3.6200e-003</b>	<b>0.0000</b>	<b>95.2077</b>

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**3.31 70-kV Substation Install Yard Rock - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.3200e-003	0.0358	0.0414	1.1000e-004		1.4000e-003	1.4000e-003		1.2900e-003	1.2900e-003	0.0000	9.6994	9.6994	3.1400e-003	0.0000	9.7778
<b>Total</b>	<b>4.3200e-003</b>	<b>0.0358</b>	<b>0.0414</b>	<b>1.1000e-004</b>		<b>1.4000e-003</b>	<b>1.4000e-003</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>9.6994</b>	<b>9.6994</b>	<b>3.1400e-003</b>	<b>0.0000</b>	<b>9.7778</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.6000e-004	0.0107	3.3900e-003	4.0000e-005	1.1300e-003	2.0000e-005	1.1600e-003	3.3000e-004	2.0000e-005	3.5000e-004	0.0000	3.9531	3.9531	1.6000e-004	0.0000	3.9572
Worker	2.1000e-004	1.6000e-004	1.5200e-003	0.0000	5.3000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4030	0.4030	1.0000e-005	0.0000	0.4032
<b>Total</b>	<b>5.7000e-004</b>	<b>0.0109</b>	<b>4.9100e-003</b>	<b>4.0000e-005</b>	<b>1.6600e-003</b>	<b>2.0000e-005</b>	<b>1.7000e-003</b>	<b>4.7000e-004</b>	<b>2.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>4.3561</b>	<b>4.3561</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>4.3604</b>



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**3.31 70-kV Substation Install Yard Rock - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.3200e-003	0.0358	0.0414	1.1000e-004		1.4000e-003	1.4000e-003		1.2900e-003	1.2900e-003	0.0000	9.6993	9.6993	3.1400e-003	0.0000	9.7778
<b>Total</b>	<b>4.3200e-003</b>	<b>0.0358</b>	<b>0.0414</b>	<b>1.1000e-004</b>		<b>1.4000e-003</b>	<b>1.4000e-003</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>9.6993</b>	<b>9.6993</b>	<b>3.1400e-003</b>	<b>0.0000</b>	<b>9.7778</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.6000e-004	0.0107	3.3900e-003	4.0000e-005	1.1300e-003	2.0000e-005	1.1600e-003	3.3000e-004	2.0000e-005	3.5000e-004	0.0000	3.9531	3.9531	1.6000e-004	0.0000	3.9572
Worker	2.1000e-004	1.6000e-004	1.5200e-003	0.0000	5.3000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4030	0.4030	1.0000e-005	0.0000	0.4032
<b>Total</b>	<b>5.7000e-004</b>	<b>0.0109</b>	<b>4.9100e-003</b>	<b>4.0000e-005</b>	<b>1.6600e-003</b>	<b>2.0000e-005</b>	<b>1.7000e-003</b>	<b>4.7000e-004</b>	<b>2.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>4.3561</b>	<b>4.3561</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>4.3604</b>

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**3.32 230-kV Substation Cleanup and Restoration - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1200e-003	0.0208	0.0281	4.0000e-005		1.1100e-003	1.1100e-003		1.0200e-003	1.0200e-003	0.0000	3.3654	3.3654	1.0900e-003	0.0000	3.3927
<b>Total</b>	<b>2.1200e-003</b>	<b>0.0208</b>	<b>0.0281</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>1.0200e-003</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>3.3654</b>	<b>3.3654</b>	<b>1.0900e-003</b>	<b>0.0000</b>	<b>3.3927</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.7000e-004	0.0292	9.2000e-003	1.1000e-004	3.0700e-003	7.0000e-005	3.1400e-003	8.9000e-004	6.0000e-005	9.5000e-004	0.0000	10.7476	10.7476	4.4000e-004	0.0000	10.7586
Worker	1.8000e-004	1.3000e-004	1.2400e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3125	0.3125	1.0000e-005	0.0000	0.3128
<b>Total</b>	<b>1.1500e-003</b>	<b>0.0293</b>	<b>0.0104</b>	<b>1.1000e-004</b>	<b>3.4800e-003</b>	<b>7.0000e-005</b>	<b>3.5500e-003</b>	<b>1.0000e-003</b>	<b>6.0000e-005</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>11.0601</b>	<b>11.0601</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>11.0714</b>

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**3.32 230-kV Substation Cleanup and Restoration - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1200e-003	0.0208	0.0281	4.0000e-005		1.1100e-003	1.1100e-003		1.0200e-003	1.0200e-003	0.0000	3.3654	3.3654	1.0900e-003	0.0000	3.3927
<b>Total</b>	<b>2.1200e-003</b>	<b>0.0208</b>	<b>0.0281</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>1.0200e-003</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>3.3654</b>	<b>3.3654</b>	<b>1.0900e-003</b>	<b>0.0000</b>	<b>3.3927</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.7000e-004	0.0292	9.2000e-003	1.1000e-004	3.0700e-003	7.0000e-005	3.1400e-003	8.9000e-004	6.0000e-005	9.5000e-004	0.0000	10.7476	10.7476	4.4000e-004	0.0000	10.7586
Worker	1.8000e-004	1.3000e-004	1.2400e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3125	0.3125	1.0000e-005	0.0000	0.3128
<b>Total</b>	<b>1.1500e-003</b>	<b>0.0293</b>	<b>0.0104</b>	<b>1.1000e-004</b>	<b>3.4800e-003</b>	<b>7.0000e-005</b>	<b>3.5500e-003</b>	<b>1.0000e-003</b>	<b>6.0000e-005</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>11.0601</b>	<b>11.0601</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>11.0714</b>

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**3.33 70-kV Cleanup and Restoration - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.2000e-004	1.0800e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2754	0.2754	1.0000e-005	0.0000	0.2756
<b>Total</b>	<b>1.5000e-004</b>	<b>1.2000e-004</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2754</b>	<b>0.2754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2756</b>

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**3.33 70-kV Cleanup and Restoration - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.2000e-004	1.0800e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2754	0.2754	1.0000e-005	0.0000	0.2756
<b>Total</b>	<b>1.5000e-004</b>	<b>1.2000e-004</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2754</b>	<b>0.2754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2756</b>

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**3.34 70-kV Substation Testing and Commissioning - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	5.8200e-003	1.8300e-003	2.0000e-005	6.1000e-004	1.0000e-005	6.3000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	2.1413	2.1413	9.0000e-005	0.0000	2.1435
Worker	8.2000e-004	6.2000e-004	5.7800e-003	2.0000e-005	1.9500e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.4844	1.4844	4.0000e-005	0.0000	1.4854
<b>Total</b>	<b>1.0100e-003</b>	<b>6.4400e-003</b>	<b>7.6100e-003</b>	<b>4.0000e-005</b>	<b>2.5600e-003</b>	<b>2.0000e-005</b>	<b>2.6000e-003</b>	<b>7.0000e-004</b>	<b>2.0000e-005</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>3.6256</b>	<b>3.6256</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>3.6289</b>

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**3.34 70-kV Substation Testing and Commissioning - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	5.8200e-003	1.8300e-003	2.0000e-005	6.1000e-004	1.0000e-005	6.3000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	2.1413	2.1413	9.0000e-005	0.0000	2.1435
Worker	8.2000e-004	6.2000e-004	5.7800e-003	2.0000e-005	1.9500e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.4844	1.4844	4.0000e-005	0.0000	1.4854
<b>Total</b>	<b>1.0100e-003</b>	<b>6.4400e-003</b>	<b>7.6100e-003</b>	<b>4.0000e-005</b>	<b>2.5600e-003</b>	<b>2.0000e-005</b>	<b>2.6000e-003</b>	<b>7.0000e-004</b>	<b>2.0000e-005</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>3.6256</b>	<b>3.6256</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>3.6289</b>

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**3.35 70-kV Power Line Conductor Installation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0639	0.5478	0.4287	1.4000e-003		0.0226	0.0226		0.0208	0.0208	0.0000	122.7593	122.7593	0.0397	0.0000	123.7519
<b>Total</b>	<b>0.0639</b>	<b>0.5478</b>	<b>0.4287</b>	<b>1.4000e-003</b>		<b>0.0226</b>	<b>0.0226</b>		<b>0.0208</b>	<b>0.0208</b>	<b>0.0000</b>	<b>122.7593</b>	<b>122.7593</b>	<b>0.0397</b>	<b>0.0000</b>	<b>123.7519</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.7000e-004	0.0291	9.1700e-003	1.1000e-004	3.0600e-003	7.0000e-005	3.1300e-003	8.8000e-004	6.0000e-005	9.5000e-004	0.0000	10.7064	10.7064	4.4000e-004	0.0000	10.7174
Worker	2.2000e-003	1.6700e-003	0.0156	4.0000e-005	5.2800e-003	3.0000e-005	5.3100e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.0078	4.0078	1.1000e-004	0.0000	4.0106
<b>Total</b>	<b>3.1700e-003</b>	<b>0.0308</b>	<b>0.0248</b>	<b>1.5000e-004</b>	<b>8.3400e-003</b>	<b>1.0000e-004</b>	<b>8.4400e-003</b>	<b>2.2800e-003</b>	<b>9.0000e-005</b>	<b>2.3800e-003</b>	<b>0.0000</b>	<b>14.7142</b>	<b>14.7142</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>14.7280</b>



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**3.35 70-kV Power Line Conductor Installation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0639	0.5478	0.4287	1.4000e-003		0.0226	0.0226		0.0208	0.0208	0.0000	122.7592	122.7592	0.0397	0.0000	123.7517
<b>Total</b>	<b>0.0639</b>	<b>0.5478</b>	<b>0.4287</b>	<b>1.4000e-003</b>		<b>0.0226</b>	<b>0.0226</b>		<b>0.0208</b>	<b>0.0208</b>	<b>0.0000</b>	<b>122.7592</b>	<b>122.7592</b>	<b>0.0397</b>	<b>0.0000</b>	<b>123.7517</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.7000e-004	0.0291	9.1700e-003	1.1000e-004	3.0600e-003	7.0000e-005	3.1300e-003	8.8000e-004	6.0000e-005	9.5000e-004	0.0000	10.7064	10.7064	4.4000e-004	0.0000	10.7174
Worker	2.2000e-003	1.6700e-003	0.0156	4.0000e-005	5.2800e-003	3.0000e-005	5.3100e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.0078	4.0078	1.1000e-004	0.0000	4.0106
<b>Total</b>	<b>3.1700e-003</b>	<b>0.0308</b>	<b>0.0248</b>	<b>1.5000e-004</b>	<b>8.3400e-003</b>	<b>1.0000e-004</b>	<b>8.4400e-003</b>	<b>2.2800e-003</b>	<b>9.0000e-005</b>	<b>2.3800e-003</b>	<b>0.0000</b>	<b>14.7142</b>	<b>14.7142</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>14.7280</b>

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**3.35 70-kV Power Line Conductor Installation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0321	0.2634	0.2192	7.3000e-004		0.0107	0.0107		9.8400e-003	9.8400e-003	0.0000	63.7556	63.7556	0.0206	0.0000	64.2711
<b>Total</b>	<b>0.0321</b>	<b>0.2634</b>	<b>0.2192</b>	<b>7.3000e-004</b>		<b>0.0107</b>	<b>0.0107</b>		<b>9.8400e-003</b>	<b>9.8400e-003</b>	<b>0.0000</b>	<b>63.7556</b>	<b>63.7556</b>	<b>0.0206</b>	<b>0.0000</b>	<b>64.2711</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8000e-004	0.0146	4.5300e-003	6.0000e-005	1.5900e-003	3.0000e-005	1.6200e-003	4.6000e-004	3.0000e-005	4.9000e-004	0.0000	5.5287	5.5287	2.3000e-004	0.0000	5.5345
Worker	1.0800e-003	7.8000e-004	7.4500e-003	2.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.4000e-004	0.0000	2.0002	2.0002	5.0000e-005	0.0000	2.0014
<b>Total</b>	<b>1.5600e-003</b>	<b>0.0154</b>	<b>0.0120</b>	<b>8.0000e-005</b>	<b>4.3300e-003</b>	<b>5.0000e-005</b>	<b>4.3800e-003</b>	<b>1.1900e-003</b>	<b>5.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>7.5289</b>	<b>7.5289</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>7.5360</b>

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**3.35 70-kV Power Line Conductor Installation - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0321	0.2634	0.2192	7.3000e-004		0.0107	0.0107		9.8400e-003	9.8400e-003	0.0000	63.7556	63.7556	0.0206	0.0000	64.2711
<b>Total</b>	<b>0.0321</b>	<b>0.2634</b>	<b>0.2192</b>	<b>7.3000e-004</b>		<b>0.0107</b>	<b>0.0107</b>		<b>9.8400e-003</b>	<b>9.8400e-003</b>	<b>0.0000</b>	<b>63.7556</b>	<b>63.7556</b>	<b>0.0206</b>	<b>0.0000</b>	<b>64.2711</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8000e-004	0.0146	4.5300e-003	6.0000e-005	1.5900e-003	3.0000e-005	1.6200e-003	4.6000e-004	3.0000e-005	4.9000e-004	0.0000	5.5287	5.5287	2.3000e-004	0.0000	5.5345
Worker	1.0800e-003	7.8000e-004	7.4500e-003	2.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.4000e-004	0.0000	2.0002	2.0002	5.0000e-005	0.0000	2.0014
<b>Total</b>	<b>1.5600e-003</b>	<b>0.0154</b>	<b>0.0120</b>	<b>8.0000e-005</b>	<b>4.3300e-003</b>	<b>5.0000e-005</b>	<b>4.3800e-003</b>	<b>1.1900e-003</b>	<b>5.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>7.5289</b>	<b>7.5289</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>7.5360</b>

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**3.36 70-kV Power Line Clean-up and Restoration - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0300e-003	0.0231	0.0142	4.0000e-005		8.1000e-004	8.1000e-004		7.4000e-004	7.4000e-004	0.0000	3.4360	3.4360	1.1100e-003	0.0000	3.4638
<b>Total</b>	<b>2.0300e-003</b>	<b>0.0231</b>	<b>0.0142</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>8.1000e-004</b>	<b>3.2000e-003</b>	<b>2.6000e-004</b>	<b>7.4000e-004</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>3.4360</b>	<b>3.4360</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>3.4638</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5000e-004	4.5400e-003	1.4100e-003	2.0000e-005	4.9000e-004	1.0000e-005	5.0000e-004	1.4000e-004	1.0000e-005	1.5000e-004	0.0000	1.7201	1.7201	7.0000e-005	0.0000	1.7219
Worker	2.5000e-004	1.8000e-004	1.7500e-003	1.0000e-005	6.5000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.4754	0.4754	1.0000e-005	0.0000	0.4757
<b>Total</b>	<b>4.0000e-004</b>	<b>4.7200e-003</b>	<b>3.1600e-003</b>	<b>3.0000e-005</b>	<b>1.1400e-003</b>	<b>1.0000e-005</b>	<b>1.1600e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>2.1955</b>	<b>2.1955</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1976</b>

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**3.36 70-kV Power Line Clean-up and Restoration - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.3000e-004	0.0000	9.3000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0300e-003	0.0231	0.0142	4.0000e-005		8.1000e-004	8.1000e-004		7.4000e-004	7.4000e-004	0.0000	3.4360	3.4360	1.1100e-003	0.0000	3.4638
<b>Total</b>	<b>2.0300e-003</b>	<b>0.0231</b>	<b>0.0142</b>	<b>4.0000e-005</b>	<b>9.3000e-004</b>	<b>8.1000e-004</b>	<b>1.7400e-003</b>	<b>1.0000e-004</b>	<b>7.4000e-004</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>3.4360</b>	<b>3.4360</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>3.4638</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5000e-004	4.5400e-003	1.4100e-003	2.0000e-005	4.9000e-004	1.0000e-005	5.0000e-004	1.4000e-004	1.0000e-005	1.5000e-004	0.0000	1.7201	1.7201	7.0000e-005	0.0000	1.7219
Worker	2.5000e-004	1.8000e-004	1.7500e-003	1.0000e-005	6.5000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.4754	0.4754	1.0000e-005	0.0000	0.4757
<b>Total</b>	<b>4.0000e-004</b>	<b>4.7200e-003</b>	<b>3.1600e-003</b>	<b>3.0000e-005</b>	<b>1.1400e-003</b>	<b>1.0000e-005</b>	<b>1.1600e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>2.1955</b>	<b>2.1955</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1976</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	13.00	5.00	5.00	59.00	28.00	13.00	92	5	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.588806	0.027737	0.198305	0.114471	0.022249	0.005748	0.012759	0.019721	0.002316	0.001163	0.004776	0.000758	0.001192

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	62.3482	62.3482	2.8200e-003	5.8000e-004	62.5924
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	62.3482	62.3482	2.8200e-003	5.8000e-004	62.5924
NaturalGas Mitigated	7.7000e-004	7.0000e-003	5.8800e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	7.6246	7.6246	1.5000e-004	1.4000e-004	7.6699
NaturalGas Unmitigated	7.7000e-004	7.0000e-003	5.8800e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	7.6246	7.6246	1.5000e-004	1.4000e-004	7.6699

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	142880	7.7000e-004	7.0000e-003	5.8800e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	7.6246	7.6246	1.5000e-004	1.4000e-004	7.6699
<b>Total</b>		<b>7.7000e-004</b>	<b>7.0000e-003</b>	<b>5.8800e-003</b>	<b>4.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>7.6246</b>	<b>7.6246</b>	<b>1.5000e-004</b>	<b>1.4000e-004</b>	<b>7.6699</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	142880	7.7000e-004	7.0000e-003	5.8800e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	7.6246	7.6246	1.5000e-004	1.4000e-004	7.6699
<b>Total</b>		<b>7.7000e-004</b>	<b>7.0000e-003</b>	<b>5.8800e-003</b>	<b>4.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>7.6246</b>	<b>7.6246</b>	<b>1.5000e-004</b>	<b>1.4000e-004</b>	<b>7.6699</b>



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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	214320	62.3482	2.8200e-003	5.8000e-004	62.5924
<b>Total</b>		<b>62.3482</b>	<b>2.8200e-003</b>	<b>5.8000e-004</b>	<b>62.5924</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	214320	62.3482	2.8200e-003	5.8000e-004	62.5924
<b>Total</b>		<b>62.3482</b>	<b>2.8200e-003</b>	<b>5.8000e-004</b>	<b>62.5924</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	27.9120	1.0900e-003	0.1202	1.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	0.2340	0.2340	6.1000e-004	0.0000	0.2493
Unmitigated	27.9120	1.0900e-003	0.1202	1.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	0.2340	0.2340	6.1000e-004	0.0000	0.2493

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	27.9009					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0111	1.0900e-003	0.1202	1.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	0.2340	0.2340	6.1000e-004	0.0000	0.2493
<b>Total</b>	<b>27.9120</b>	<b>1.0900e-003</b>	<b>0.1202</b>	<b>1.0000e-005</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>0.2340</b>	<b>0.2340</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>0.2493</b>

Data retrieval failed for the subreport, 'subreport1', located at: subAreaDetail. Please check the log files for more information.

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**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Annual

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Trucks	1	4.00	13	402	0.38	Diesel
Off-Highway Trucks	1	4.00	12	402	0.38	Diesel
Other General Industrial Equipment	1	8.00	2	400	0.34	Diesel

**UnMitigated/Mitigated**

Equipment Type	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Highway Trucks	3.1100e-003	0.0208	0.0203	8.0000e-005		7.5000e-004	7.5000e-004		6.9000e-004	6.9000e-004	0.0000	7.2595	7.2595	2.3500e-003	0.0000	7.3182
Other General Industrial Equipment	3.8000e-004	2.7700e-003	2.6600e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.0291	1.0291	3.3000e-004	0.0000	1.0374
<b>Total</b>	<b>3.4900e-003</b>	<b>0.0236</b>	<b>0.0230</b>	<b>9.0000e-005</b>		<b>8.4000e-004</b>	<b>8.4000e-004</b>		<b>7.8000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>8.2886</b>	<b>8.2886</b>	<b>2.6800e-003</b>	<b>0.0000</b>	<b>8.3556</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Annual

**11.0 Vegetation**

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**Estrella Substation and Paso Robles Area Reinforcement Project**  
**San Luis Obispo County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	7,144.00	1000sqft	164.00	7,144,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2024
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - The total area in power line the easement widths, substation temp disturbance, areas for temporary staging and access roads outside of the easement equals approximately 164 acres or a 7,144,000 square feet area

Construction Phase - Based on project schedule and description

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

Off-road Equipment - Based on construction schedule  
Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on equipment roster for the project.

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Trips and VMT - Based on equipment roster and schedule provided

On-road Fugitive Dust - Per the user guide 9.3% silt content should be used for the San Luis Obispo region

Grading - Based on grading and material movement for the project.

Vehicle Trips - Unmanned operation

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - No consumer product utilization was assumed for the project

Area Coating - No architectural coating is assumed for the project

Energy Use - Energy intensity factors scaled down to match the area occupied by the 230kV Substation Control Enclosure approximately 14 feet wide, 48 feet long, and the 70 kV Substation Control Enclosure approximately 16 feet wide and 64 feet long.

Water And Wastewater - Unmanned facility - No water use is expected

Solid Waste - No solid waste generation is expected

Construction Off-road Equipment Mitigation - At a minimum, the off-road equipment fleet shall meet the CARB off-road emissions average for that calendar year and ensure that quarterly DPM emissions are less than the SLOPCAPCD significance thresholds.

Operational Off-Road Equipment - Assumes monthly inspections and an annual maintenance on the substation components. Helicopter emissions are represented as Other general industrial equipment with hp increased to 400

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	3572000	0
tblAreaCoating	Area_Nonresidential_Interior	10716000	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	50.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	19.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstructionPhase	NumDays	3,100.00	48.00
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tblConstructionPhase	NumDays	3,100.00	24.00
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tblConstructionPhase	NumDays	3,100.00	12.00
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tblConstructionPhase	NumDays	3,100.00	48.00
tblConstructionPhase	NumDays	3,100.00	6.00
tblConstructionPhase	NumDays	3,100.00	18.00
tblConstructionPhase	NumDays	3,100.00	6.00
tblConstructionPhase	NumDays	3,100.00	6.00
tblConstructionPhase	NumDays	3,100.00	12.00





Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	LightingElect	3.08	0.01
tblEnergyUse	NT24E	3.70	0.01
tblEnergyUse	NT24NG	6.67	0.01
tblEnergyUse	T24E	1.48	0.01
tblEnergyUse	T24NG	19.71	0.01
tblGrading	AcresOfGrading	36.00	27.00
tblGrading	AcresOfGrading	4.50	9.00
tblGrading	AcresOfGrading	9.00	18.00
tblGrading	AcresOfGrading	4.50	9.00
tblGrading	MaterialExported	0.00	828.00
tblGrading	MaterialImported	0.00	3,140.00
tblOffRoadEquipment	HorsePower	63.00	62.00
tblOffRoadEquipment	HorsePower	63.00	62.00
tblOffRoadEquipment	HorsePower	63.00	62.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00





Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
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tblOffRoadEquipment	PhaseName		70-kV Substation Steel Bus Erection
tblOffRoadEquipment	PhaseName		70-kV Substation Equip Delivery & Installation
tblOffRoadEquipment	PhaseName		230-kV Substation Cable Installation and Termination
tblOffRoadEquipment	PhaseName		70-kV Substation Foundation Construction
tblOffRoadEquipment	PhaseName		230-kV Transmission Foundation Tower Installation Remove two towers
tblOffRoadEquipment	PhaseName		Reconductoring Segment Pole Installation Transfer Distribution Pole Removal
tblOffRoadEquipment	PhaseName		230-kV Substation Foundation Construction
tblOffRoadEquipment	PhaseName		70-kV Substation Mobilization
tblOffRoadEquipment	PhaseName		230-kV Transmission Site Clean-up and Restoration
tblOffRoadEquipment	PhaseName		70-kV Power Line Site Development Mobilization

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

tblOffRoadEquipment	PhaseName	Reconductoring Segment Clean-up and Restoration
tblOffRoadEquipment	PhaseName	Reconductoring Segment Site Development Mobilization
tblOffRoadEquipment	PhaseName	70-kV Power Line Clean-up and Restoration
tblOffRoadEquipment	PhaseName	230-kV Substation Steel Bus Erection
tblOffRoadEquipment	PhaseName	230-kV Substation Install Yard Rock
tblOffRoadEquipment	PhaseName	70-kV Substation Steel Bus Erection
tblOffRoadEquipment	PhaseName	230-kV Substation Transformer & Equip Delivery & Installation
tblOffRoadEquipment	PhaseName	230-kV Substation Transformer & Equip Delivery & Installation
tblOffRoadEquipment	PhaseName	230-kV Substation Remaining Equipment Delivery and Install
tblOffRoadEquipment	PhaseName	230-kV Transmission Foundation Tower Installation Remove two towers
tblOffRoadEquipment	PhaseName	230-kV Transmission Foundation Tower Installation Remove two towers
tblOffRoadEquipment	PhaseName	230-kV Transmission Foundation Tower Installation Remove two towers
tblOffRoadEquipment	PhaseName	230-kV Transmission Conductor
tblOffRoadEquipment	PhaseName	230-kV Transmission Conductor
tblOffRoadEquipment	PhaseName	70-kV Substation Equip Delivery & Installation
tblOffRoadEquipment	PhaseName	70-kV Substation Control Enclosure Delivery and Install
tblOffRoadEquipment	PhaseName	230-kV Substation Testing and Commissioning
tblOffRoadEquipment	PhaseName	70-kV Substation Cable Installation and Termination
tblOffRoadEquipment	PhaseName	70-kV Power Line Pole Tower Installation
tblOffRoadEquipment	PhaseName	70-kV Power Line Pole Tower Installation
tblOffRoadEquipment	PhaseName	70-kV Substation Install Yard Rock
tblOffRoadEquipment	PhaseName	70-kV Cleanup and Restoration
tblOffRoadEquipment	PhaseName	70-kV Substation Testing and Commissioning

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

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tblOffRoadEquipment	PhaseName	70-kV Power Line Conductor Installation
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tblOffRoadEquipment	PhaseName	230-kV Substation Access Roads
tblOffRoadEquipment	PhaseName	230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization
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tblOffRoadEquipment	PhaseName	230-kV Substation Install Yard Rock
tblOffRoadEquipment	PhaseName	70-kV Substation Install Yard Rock

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tblOffRoadEquipment	PhaseName		230-kV Substation Fence and Gate Installation
tblOffRoadEquipment	PhaseName		70-kV Substation Foundation Construction
tblOffRoadEquipment	PhaseName		70-kV Substation Ground Grid Conduit Installation
tblOffRoadEquipment	PhaseName		230-kV Substation Ground Grid Conduit Installation
tblOffRoadEquipment	UsageHours	7.00	6.00
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tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
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tblOffRoadEquipment	UsageHours	7.00	6.00
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tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	5.00
tblOffRoadEquipment	UsageHours	8.00	6.00











Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	13.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	12.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	2.00
tblOperationalOffRoadEquipment	OperHorsePower	88.00	400.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
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tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblSolidWaste	SolidWasteGenerationRate	8,858.56	0.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
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tblTripsAndVMT	VendorTripNumber	1,171.00	13.00
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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

tblTripsAndVMT	VendorTripNumber	1,171.00	45.00
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tblTripsAndVMT	VendorTripNumber	1,171.00	10.00

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

tblTripsAndVMT	VendorTripNumber	1,171.00	31.00
tblTripsAndVMT	WorkerTripLength	13.00	10.00
tblTripsAndVMT	WorkerTripLength	13.00	7.68
tblTripsAndVMT	WorkerTripLength	13.00	8.45
tblTripsAndVMT	WorkerTripLength	13.00	8.45
tblTripsAndVMT	WorkerTripLength	13.00	9.15
tblTripsAndVMT	WorkerTripLength	13.00	9.56
tblTripsAndVMT	WorkerTripLength	13.00	8.97
tblTripsAndVMT	WorkerTripLength	13.00	7.34
tblTripsAndVMT	WorkerTripLength	13.00	8.52
tblTripsAndVMT	WorkerTripLength	13.00	10.00
tblTripsAndVMT	WorkerTripLength	13.00	10.00
tblTripsAndVMT	WorkerTripLength	13.00	10.00
tblTripsAndVMT	WorkerTripLength	13.00	10.00
tblTripsAndVMT	WorkerTripLength	13.00	7.68
tblTripsAndVMT	WorkerTripLength	13.00	9.23
tblTripsAndVMT	WorkerTripLength	13.00	10.00
tblTripsAndVMT	WorkerTripLength	13.00	10.00
tblTripsAndVMT	WorkerTripLength	13.00	6.79
tblTripsAndVMT	WorkerTripLength	13.00	6.72
tblTripsAndVMT	WorkerTripLength	13.00	8.68
tblTripsAndVMT	WorkerTripLength	13.00	8.25
tblTripsAndVMT	WorkerTripLength	13.00	8.15
tblTripsAndVMT	WorkerTripLength	13.00	7.67
tblTripsAndVMT	WorkerTripLength	13.00	10.00
tblTripsAndVMT	WorkerTripLength	13.00	7.68
tblTripsAndVMT	WorkerTripLength	13.00	8.14

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

tblTripsAndVMT	WorkerTripLength	13.00	8.45
tblTripsAndVMT	WorkerTripLength	13.00	8.56
tblTripsAndVMT	WorkerTripLength	13.00	9.18
tblTripsAndVMT	WorkerTripLength	13.00	6.32
tblTripsAndVMT	WorkerTripLength	13.00	8.45
tblTripsAndVMT	WorkerTripLength	13.00	7.85
tblTripsAndVMT	WorkerTripLength	13.00	5.87
tblTripsAndVMT	WorkerTripLength	13.00	7.50
tblTripsAndVMT	WorkerTripLength	13.00	8.38
tblTripsAndVMT	WorkerTripNumber	5.00	22.00
tblTripsAndVMT	WorkerTripNumber	5.00	16.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	22.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	18.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	14.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	18.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	9.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	30.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	38.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	16.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	14.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	10.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00

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tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	5.00	16.00
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tblTripsAndVMT	WorkerTripNumber	5.00	18.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	32.00
tblTripsAndVMT	WorkerTripNumber	5.00	16.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	38.00
tblTripsAndVMT	WorkerTripNumber	10.00	24.00
tblTripsAndVMT	WorkerTripNumber	30.00	26.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	18.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	28.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	22.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	1,652,050,000.00	0.00

**2.0 Emissions Summary**

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	11.8864	110.4815	77.5908	0.2791	8.4664	3.9137	12.3801	3.7790	3.6020	7.3810	0.0000	27,322.006 2	27,322.006 2	7.9167	0.0000	27,519.922 4
2023	9.7896	81.3027	68.0185	0.2538	3.9882	2.8200	5.3730	0.7733	2.6013	3.0073	0.0000	24,802.459 8	24,802.459 8	7.0381	0.0000	24,978.411 5
2024	2.5008	20.6390	17.1411	0.0596	0.5937	0.7958	1.1246	0.0968	0.7323	0.8222	0.0000	5,815.4442	5,815.4442	1.7071	0.0000	5,858.1217
<b>Maximum</b>	<b>11.8864</b>	<b>110.4815</b>	<b>77.5908</b>	<b>0.2791</b>	<b>8.4664</b>	<b>3.9137</b>	<b>12.3801</b>	<b>3.7790</b>	<b>3.6020</b>	<b>7.3810</b>	<b>0.0000</b>	<b>27,322.006 2</b>	<b>27,322.006 2</b>	<b>7.9167</b>	<b>0.0000</b>	<b>27,519.922 4</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	11.8864	110.4815	77.5908	0.2791	4.0505	3.9137	7.9642	1.6790	3.6020	5.2810	0.0000	27,322.006 2	27,322.006 2	7.9167	0.0000	27,519.922 4
2023	9.7896	81.3027	68.0185	0.2538	2.7752	2.8200	4.3005	0.6423	2.6013	3.0073	0.0000	24,802.459 8	24,802.459 8	7.0381	0.0000	24,978.411 5
2024	2.5008	20.6390	17.1411	0.0596	0.3511	0.7958	1.1246	0.0899	0.7323	0.8222	0.0000	5,815.4442	5,815.4442	1.7071	0.0000	5,858.1217
<b>Maximum</b>	<b>11.8864</b>	<b>110.4815</b>	<b>77.5908</b>	<b>0.2791</b>	<b>4.0505</b>	<b>3.9137</b>	<b>7.9642</b>	<b>1.6790</b>	<b>3.6020</b>	<b>5.2810</b>	<b>0.0000</b>	<b>27,322.006 2</b>	<b>27,322.006 2</b>	<b>7.9167</b>	<b>0.0000</b>	<b>27,519.922 4</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	45.00	0.00	29.07	48.14	0.00	18.73	0.00	0.00	0.00	0.00	0.00	0.00

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	152.9488	6.6100e-003	0.7282	5.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003		1.5635	1.5635	4.0800e-003		1.6655
Energy	4.2200e-003	0.0384	0.0322	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.0532	46.0532	8.8000e-004	8.4000e-004	46.3269
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.8750	6.0932	5.9132	0.0250		0.2146	0.2146		0.1974	0.1974		2,414.7318	2,414.7318	0.7810		2,434.2562
<b>Total</b>	<b>153.8280</b>	<b>6.1382</b>	<b>6.6737</b>	<b>0.0252</b>	<b>0.0000</b>	<b>0.2201</b>	<b>0.2201</b>	<b>0.0000</b>	<b>0.2029</b>	<b>0.2029</b>		<b>2,462.3485</b>	<b>2,462.3485</b>	<b>0.7859</b>	<b>8.4000e-004</b>	<b>2,482.2486</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	152.9488	6.6100e-003	0.7282	5.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003		1.5635	1.5635	4.0800e-003		1.6655
Energy	4.2200e-003	0.0384	0.0322	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.0532	46.0532	8.8000e-004	8.4000e-004	46.3269
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.8750	6.0932	5.9132	0.0250		0.2146	0.2146		0.1974	0.1974		2,414.7318	2,414.7318	0.7810		2,434.2562
<b>Total</b>	<b>153.8280</b>	<b>6.1382</b>	<b>6.6737</b>	<b>0.0252</b>	<b>0.0000</b>	<b>0.2201</b>	<b>0.2201</b>	<b>0.0000</b>	<b>0.2029</b>	<b>0.2029</b>		<b>2,462.3485</b>	<b>2,462.3485</b>	<b>0.7859</b>	<b>8.4000e-004</b>	<b>2,482.2486</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	230-kV Transmission Site Work Area Preparation Mobilization	Site Preparation	6/1/2022	6/14/2022	6	12	
2	230-kV Transmission Foundation Tower Installation Remove two towers	Building Construction	6/15/2022	8/9/2022	6	48	
3	Reconductoring Segment Site Development Mobilization	Site Preparation	8/1/2022	8/13/2022	6	12	

## Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

4	Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Building Construction	8/15/2022	2/18/2023	6	144
5	230-kV Substation Access Roads	Site Preparation	9/1/2022	9/14/2022	6	12
6	230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Grading	9/15/2022	10/12/2022	6	24
7	230-kV Substation Fence and Gate Installation	Building Construction	10/8/2022	10/21/2022	6	12
8	Reconductoring Segment Conductor Installation	Building Construction	10/10/2022	2/28/2023	6	120
9	230-kV Substation Foundation Construction	Building Construction	10/15/2022	11/25/2022	6	36
10	70-kV Substation Mobilization	Site Preparation	10/18/2022	10/30/2022	6	12
11	70-kV Substation Foundation Construction	Building Construction	11/1/2022	12/31/2022	6	48
12	70-kV Substation Ground Grid Conduit Installation	Building Construction	11/1/2022	12/31/2022	6	48
13	230-kV Substation Ground Grid Conduit Installation	Building Construction	11/15/2022	12/12/2022	6	24
14	230-kV Substation Steel Bus Erection	Building Construction	12/9/2022	1/5/2023	6	24
15	230-kV Substation Install Yard Rock	Building Construction	12/23/2022	1/12/2023	6	18
16	70-kV Substation Steel Bus Erection	Building Construction	1/1/2023	1/31/2023	6	24
17	230-kV Substation Transformer & Equip Delivery & Installation	Building Construction	1/2/2023	2/4/2023	6	30
18	230-kV Substation Control Enclosure Delivery and Install	Building Construction	1/6/2023	1/19/2023	6	12
19	230-kV Substation Remaining Equipment Delivery and Install	Building Construction	1/13/2023	2/11/2023	6	24
20	230-kV Transmission Conductor	Building Construction	1/25/2023	1/31/2023	6	6
21	70-kV Substation Equip Delivery & Installation	Building Construction	2/1/2023	2/21/2023	6	18
22	70-kV Substation Control Enclosure Delivery and Install	Building Construction	2/1/2023	2/7/2023	6	6
23	230-kV Transmission Site Clean-up and Restoration	Building Construction	2/1/2023	2/7/2023	6	6
24	230-kV Substation Cable Installation and Termination	Building Construction	2/1/2023	2/14/2023	6	12

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25	230-kV Substation Testing and Commissioning	Building Construction	2/11/2023	3/17/2023	6	30
26	70-kV Substation Cable Installation and Termination	Building Construction	2/22/2023	3/14/2023	6	18
27	70-kV Power Line Site Development Mobilization	Site Preparation	3/1/2023	3/14/2023	6	12
28	Reconductoring Segment Clean-up and Restoration	Site Preparation	3/1/2023	3/14/2023	6	12
29	70-kV Power Line Pole Tower Installation	Building Construction	3/1/2023	11/30/2023	6	216
30	70-kV Substation Install Yard Rock	Building Construction	3/1/2023	3/14/2023	6	12
31	230-kV Substation Cleanup and Restoration	Site Preparation	3/11/2023	3/31/2023	6	18
32	70-kV Cleanup and Restoration	Site Preparation	3/15/2023	3/28/2023	6	12
33	70-kV Substation Testing and Commissioning	Building Construction	4/1/2023	5/31/2023	6	48
34	70-kV Power Line Conductor Installation	Building Construction	11/1/2023	1/31/2024	6	72
35	70-kV Power Line Clean-up and Restoration	Site Preparation	2/1/2024	2/14/2024	6	12

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
230-kV Transmission Site Work Area Preparation Mobilization	Graders	1	6.00	187	0.41
230-kV Transmission Site Work Area Preparation Mobilization	Tractors/Loaders/Backhoes	1	6.00	97	0.37
230-kV Transmission Foundation Tower Installation Remove two towers	Bore/Drill Rigs	1	1.00	221	0.50
230-kV Transmission Foundation Tower Installation Remove two towers	Cranes	3	5.30	231	0.29

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230-kV Transmission Foundation Tower Installation Remove two towers	Forklifts	3	2.60	89	0.20
230-kV Transmission Foundation Tower Installation Remove two towers	Off-Highway Trucks	2	3.50	402	0.38
230-kV Transmission Foundation Tower Installation Remove two towers	Off-Highway Trucks	1	0.80	402	0.38
230-kV Transmission Foundation Tower Installation Remove two towers	Off-Highway Trucks	2	2.60	402	0.38
230-kV Transmission Foundation Tower Installation Remove two towers	Tractors/Loaders/Backhoes	1	0.50	97	0.37
Reconductoring Segment Site Development Mobilization	Graders	1	6.00	187	0.41
Reconductoring Segment Site Development Mobilization	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Bore/Drill Rigs	1	6.00	221	0.50
Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Cranes	3	6.00	231	0.29
Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Cranes	1	1.00	231	0.29
Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Off-Highway Trucks	2	3.00	402	0.38
Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Off-Highway Trucks	2	2.00	402	0.38
230-kV Substation Access Roads	Off-Highway Trucks	2	8.00	402	0.38
230-kV Substation Access Roads	Tractors/Loaders/Backhoes	2	8.00	97	0.37
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Graders	1	8.00	187	0.41
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Off-Highway Trucks	4	10.00	402	0.38
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Off-Highway Trucks	2	10.00	402	0.38
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Rollers	2	8.00	80	0.38
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Rubber Tired Dozers	1	8.00	247	0.40
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Rubber Tired Loaders	1	8.00	203	0.36

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230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Scrapers	1	8.00	367	0.48
230-kV Substation Fence and Gate Installation	Skid Steer Loaders	1	4.00	65	0.37
Reconductoring Segment Conductor Installation	Forklifts	1	3.00	89	0.20
Reconductoring Segment Conductor Installation	Off-Highway Trucks	2	6.00	402	0.38
Reconductoring Segment Conductor Installation	Off-Highway Trucks	2	6.00	402	0.38
Reconductoring Segment Conductor Installation	Off-Highway Trucks	2	4.00	402	0.38
Reconductoring Segment Conductor Installation	Off-Highway Trucks	1	6.00	402	0.38
Reconductoring Segment Conductor Installation	Other General Industrial Equipment	1	6.00	88	0.34
Reconductoring Segment Conductor Installation	Other General Industrial Equipment	1	6.00	88	0.34
230-kV Substation Foundation Construction	Bore/Drill Rigs	1	8.00	221	0.50
230-kV Substation Foundation Construction	Cranes	1	5.00	231	0.29
230-kV Substation Foundation Construction	Tractors/Loaders/Backhoes	1	5.00	97	0.37
70-kV Substation Mobilization	Graders	1	4.00	187	0.41
70-kV Substation Mobilization	Tractors/Loaders/Backhoes	1	4.00	97	0.37
70-kV Substation Foundation Construction	Bore/Drill Rigs	1	8.00	221	0.50
70-kV Substation Foundation Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
70-kV Substation Foundation Construction	Trenchers	1	8.00	78	0.50
70-kV Substation Ground Grid Conduit Installation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
70-kV Substation Ground Grid Conduit Installation	Trenchers	1	6.00	78	0.50
230-kV Substation Ground Grid Conduit Installation	Trenchers	1	8.00	78	0.50
230-kV Substation Steel Bus Erection	Aerial Lifts	1	6.00	62	0.31
230-kV Substation Steel Bus Erection	Off-Highway Trucks	1	8.00	402	0.38
230-kV Substation Install Yard Rock	Off-Highway Trucks	1	10.00	402	0.38

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230-kV Substation Install Yard Rock	Skid Steer Loaders	1	10.00	65	0.37
70-kV Substation Steel Bus Erection	Aerial Lifts	2	8.00	62	0.31
70-kV Substation Steel Bus Erection	Off-Highway Trucks	2	6.00	402	0.38
230-kV Substation Transformer & Equip Delivery & Installation	Generator Sets	1	5.00	84	0.74
230-kV Substation Transformer & Equip Delivery & Installation	Off-Highway Trucks	2	10.00	402	0.38
230-kV Substation Transformer & Equip Delivery & Installation	Off-Highway Trucks	1	4.80	402	0.38
230-kV Substation Transformer & Equip Delivery & Installation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
230-kV Substation Control Enclosure Delivery and Install	Cranes	1	6.00	231	0.29
230-kV Substation Remaining Equipment Delivery and Install	Off-Highway Trucks	1	6.00	402	0.38
230-kV Transmission Conductor	Cranes	3	6.00	231	0.29
230-kV Transmission Conductor	Off-Highway Trucks	2	4.00	402	0.38
230-kV Transmission Conductor	Off-Highway Trucks	2	4.00	402	0.38
70-kV Substation Equip Delivery & Installation	Aerial Lifts	2	4.00	62	0.31
70-kV Substation Equip Delivery & Installation	Off-Highway Trucks	1	5.30	402	0.38
70-kV Substation Control Enclosure Delivery and Install	Off-Highway Trucks	0	0.00	402	0.38
230-kV Transmission Site Clean-up and Restoration	Graders	1	8.00	187	0.41
230-kV Transmission Site Clean-up and Restoration	Tractors/Loaders/Backhoes	1	4.00	97	0.37
230-kV Substation Cable Installation and Termination	Aerial Lifts	1	8.00	62	0.31
230-kV Substation Testing and Commissioning	Off-Highway Trucks	0	0.00	402	0.38
70-kV Substation Cable Installation and Termination	Off-Highway Trucks	0	0.00	402	0.38
70-kV Power Line Site Development Mobilization	Graders	2	6.00	187	0.41
70-kV Power Line Site Development Mobilization	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Reconductoring Segment Clean-up and Restoration	Graders	1	6.00	187	0.41

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Reconductoring Segment Clean-up and Restoration	Tractors/Loaders/Backhoes	1	4.00	97	0.37
70-kV Power Line Pole Tower Installation	Cranes	1	4.00	231	0.29
70-kV Power Line Pole Tower Installation	Off-Highway Trucks	3	4.00	402	0.38
70-kV Power Line Pole Tower Installation	Off-Highway Trucks	3	4.00	402	0.38
70-kV Power Line Pole Tower Installation	Tractors/Loaders/Backhoes	2	4.00	97	0.37
70-kV Power Line Pole Tower Installation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
70-kV Substation Install Yard Rock	Off-Highway Trucks	1	8.00	402	0.38
70-kV Substation Install Yard Rock	Skid Steer Loaders	1	8.00	65	0.37
70-kV Substation Install Yard Rock	Tractors/Loaders/Backhoes	1	8.00	97	0.37
230-kV Substation Cleanup and Restoration	Other General Industrial Equipment	1	6.00	88	0.34
230-kV Substation Cleanup and Restoration	Tractors/Loaders/Backhoes	1	6.00	97	0.37
70-kV Cleanup and Restoration	Off-Highway Trucks	0	0.00	402	0.38
70-kV Substation Testing and Commissioning	Off-Highway Trucks	0	0.00	402	0.38
70-kV Power Line Conductor Installation	Cranes	3	6.00	231	0.29
70-kV Power Line Conductor Installation	Forklifts	1	3.00	89	0.20
70-kV Power Line Conductor Installation	Off-Highway Trucks	3	4.00	402	0.38
70-kV Power Line Conductor Installation	Off-Highway Trucks	1	6.00	402	0.38
70-kV Power Line Conductor Installation	Off-Highway Trucks	2	2.00	402	0.38
70-kV Power Line Conductor Installation	Other General Industrial Equipment	1	6.00	88	0.34
70-kV Power Line Conductor Installation	Other General Industrial Equipment	1	6.00	88	0.34
70-kV Power Line Clean-up and Restoration	Graders	1	6.00	187	0.41
70-kV Power Line Clean-up and Restoration	Tractors/Loaders/Backhoes	1	4.00	97	0.37

**Trips and VMT**

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
230-kV Transmission Site Work Area Prepar	2	22.00	11.00	104.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Transmission Foundation Tower Insta	13	30.00	12.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Reconductoring Segment Site Develop	2	18.00	10.00	0.00	7.67	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Reconductoring Segment Pole Installati	9	38.00	13.00	0.00	6.32	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Access Roads	4	24.00	33.00	0.00	8.45	1.90	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Site Prep Grading Entrance	12	26.00	30.00	393.00	7.85	1.20	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Fence and Gate Install	1	18.00	30.00	0.00	5.87	1.85	20.00	LD_Mix	HDT_Mix	HHDT
Reconductoring Segment Conductor In	10	28.00	10.00	0.00	7.50	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Foundation Constructio	3	22.00	31.00	0.00	8.38	1.85	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Mobilization	2	16.00	6.00	0.00	7.68	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Foundation Constructio	3	22.00	13.00	0.00	8.45	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Ground Grid Conduit In	2	12.00	9.00	0.00	8.45	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Ground Grid Conduit In	1	12.00	29.00	0.00	9.15	0.91	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Steel Bus Erection	2	12.00	30.00	0.00	9.56	1.20	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Install Yard Rock	2	18.00	45.00	0.00	8.97	8.68	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Steel Bus Erection	4	14.00	9.00	0.00	7.34	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Transformer & Equip D	5	18.00	30.00	0.00	8.52	1.15	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Control Enclosure Deliv	1	12.00	2.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Remaining Equipment	1	9.00	28.00	0.00	10.00	1.34	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Transmission Conductor	7	38.00	11.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Equip Delivery & Install	3	16.00	12.00	0.00	7.68	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Control Enclosure Deliv	0	12.00	2.00	0.00	9.23	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Transmission Site Clean-up and Rest	2	14.00	9.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Cable Installation and T	1	10.00	3.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Testing and Commissi	0	12.00	26.00	0.00	6.79	13.00	20.00	LD_Mix	HDT_Mix	HHDT



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70-kV Substation Cable Installation and T	0	12.00	3.00	0.00	6.72	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Power Line Site Development Mobilizati	3	20.00	10.00	0.00	8.68	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Reconductoring	2	16.00	5.00	0.00	8.25	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Segment Clean up and										
70-kV Power Line Pole Tower Installation	10	41.00	15.00	0.00	8.15	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Install Yard Back	3	12.00	16.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Cleanup and Restoration	2	8.00	29.00	0.00	7.68	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Cleanup and Restoration	0	10.00	0.00	0.00	8.14	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Testing and Commissi	0	12.00	2.00	0.00	8.45	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Power Line Conductor Installation	12	32.00	10.00	0.00	8.56	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Power Line Clean up and Restorati	2	16.00	7.00	0.00	9.18	13.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 230-kV Transmission Site Work Area Preparation Mobilization - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8081	0.0000	0.8081	0.0878	0.0000	0.0878			0.0000			0.0000
Off-Road	0.4348	5.1999	2.9698	7.3000e-003		0.1930	0.1930		0.1776	0.1776		706.8884	706.8884	0.2286		712.6040
<b>Total</b>	<b>0.4348</b>	<b>5.1999</b>	<b>2.9698</b>	<b>7.3000e-003</b>	<b>0.8081</b>	<b>0.1930</b>	<b>1.0011</b>	<b>0.0878</b>	<b>0.1776</b>	<b>0.2654</b>		<b>706.8884</b>	<b>706.8884</b>	<b>0.2286</b>		<b>712.6040</b>

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**3.2 230-kV Transmission Site Work Area Preparation Mobilization - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0668	2.2991	0.5746	6.5800e-003	0.1514	9.3300e-003	0.1607	0.0415	8.9200e-003	0.0504		711.5809	711.5809	0.0434		712.6659
Vendor	0.0557	1.5780	0.4564	4.7400e-003	0.1324	6.0900e-003	0.1384	0.0381	5.8200e-003	0.0439		504.7505	504.7505	0.0227		505.3186
Worker	0.0769	0.0571	0.5121	1.4000e-003	0.1674	1.0400e-003	0.1684	0.0444	9.6000e-004	0.0454		139.8697	139.8697	4.0600e-003		139.9711
<b>Total</b>	<b>0.1994</b>	<b>3.9342</b>	<b>1.5431</b>	<b>0.0127</b>	<b>0.4511</b>	<b>0.0165</b>	<b>0.4675</b>	<b>0.1239</b>	<b>0.0157</b>	<b>0.1396</b>		<b>1,356.2012</b>	<b>1,356.2012</b>	<b>0.0702</b>		<b>1,357.9557</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3152	0.0000	0.3152	0.0342	0.0000	0.0342			0.0000			0.0000
Off-Road	0.4348	5.1999	2.9698	7.3000e-003		0.1930	0.1930		0.1776	0.1776	0.0000	706.8884	706.8884	0.2286		712.6040
<b>Total</b>	<b>0.4348</b>	<b>5.1999</b>	<b>2.9698</b>	<b>7.3000e-003</b>	<b>0.3152</b>	<b>0.1930</b>	<b>0.5081</b>	<b>0.0342</b>	<b>0.1776</b>	<b>0.2118</b>	<b>0.0000</b>	<b>706.8884</b>	<b>706.8884</b>	<b>0.2286</b>		<b>712.6040</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.2 230-kV Transmission Site Work Area Preparation Mobilization - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0668	2.2991	0.5746	6.5800e-003	0.1514	9.3300e-003	0.1607	0.0415	8.9200e-003	0.0504		711.5809	711.5809	0.0434		712.6659
Vendor	0.0557	1.5780	0.4564	4.7400e-003	0.1324	6.0900e-003	0.1384	0.0381	5.8200e-003	0.0439		504.7505	504.7505	0.0227		505.3186
Worker	0.0769	0.0571	0.5121	1.4000e-003	0.1674	1.0400e-003	0.1684	0.0444	9.6000e-004	0.0454		139.8697	139.8697	4.0600e-003		139.9711
<b>Total</b>	<b>0.1994</b>	<b>3.9342</b>	<b>1.5431</b>	<b>0.0127</b>	<b>0.4511</b>	<b>0.0165</b>	<b>0.4675</b>	<b>0.1239</b>	<b>0.0157</b>	<b>0.1396</b>		<b>1,356.2012</b>	<b>1,356.2012</b>	<b>0.0702</b>		<b>1,357.9557</b>

**3.3 230-kV Transmission Foundation Tower Installation Remove two towers - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7490	16.2551	10.7389	0.0358		0.6653	0.6653		0.6121	0.6121		3,466.3790	3,466.3790	1.1211		3,494.4065
<b>Total</b>	<b>1.7490</b>	<b>16.2551</b>	<b>10.7389</b>	<b>0.0358</b>		<b>0.6653</b>	<b>0.6653</b>		<b>0.6121</b>	<b>0.6121</b>		<b>3,466.3790</b>	<b>3,466.3790</b>	<b>1.1211</b>		<b>3,494.4065</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.3 230-kV Transmission Foundation Tower Installation Remove two towers - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0608	1.7215	0.4979	5.1700e-003	0.1444	6.6400e-003	0.1510	0.0415	6.3500e-003	0.0479		550.6369	550.6369	0.0248		551.2566
Worker	0.1049	0.0778	0.6983	1.9200e-003	0.2282	1.4200e-003	0.2296	0.0605	1.3000e-003	0.0618		190.7314	190.7314	5.5300e-003		190.8697
<b>Total</b>	<b>0.1657</b>	<b>1.7993</b>	<b>1.1962</b>	<b>7.0900e-003</b>	<b>0.3726</b>	<b>8.0600e-003</b>	<b>0.3806</b>	<b>0.1021</b>	<b>7.6500e-003</b>	<b>0.1097</b>		<b>741.3683</b>	<b>741.3683</b>	<b>0.0303</b>		<b>742.1264</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7490	16.2551	10.7389	0.0358		0.6653	0.6653		0.6121	0.6121	0.0000	3,466.3790	3,466.3790	1.1211		3,494.4065
<b>Total</b>	<b>1.7490</b>	<b>16.2551</b>	<b>10.7389</b>	<b>0.0358</b>		<b>0.6653</b>	<b>0.6653</b>		<b>0.6121</b>	<b>0.6121</b>	<b>0.0000</b>	<b>3,466.3790</b>	<b>3,466.3790</b>	<b>1.1211</b>		<b>3,494.4065</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.3 230-kV Transmission Foundation Tower Installation Remove two towers - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0608	1.7215	0.4979	5.1700e-003	0.1444	6.6400e-003	0.1510	0.0415	6.3500e-003	0.0479		550.6369	550.6369	0.0248		551.2566
Worker	0.1049	0.0778	0.6983	1.9200e-003	0.2282	1.4200e-003	0.2296	0.0605	1.3000e-003	0.0618		190.7314	190.7314	5.5300e-003		190.8697
<b>Total</b>	<b>0.1657</b>	<b>1.7993</b>	<b>1.1962</b>	<b>7.0900e-003</b>	<b>0.3726</b>	<b>8.0600e-003</b>	<b>0.3806</b>	<b>0.1021</b>	<b>7.6500e-003</b>	<b>0.1097</b>		<b>741.3683</b>	<b>741.3683</b>	<b>0.0303</b>		<b>742.1264</b>

**3.4 Reconductoring Segment Site Development Mobilization - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7954	0.0000	0.7954	0.0859	0.0000	0.0859			0.0000			0.0000
Off-Road	0.3936	4.7810	2.4103	6.5200e-003		0.1705	0.1705		0.1568	0.1568		631.5787	631.5787	0.2043		636.6853
<b>Total</b>	<b>0.3936</b>	<b>4.7810</b>	<b>2.4103</b>	<b>6.5200e-003</b>	<b>0.7954</b>	<b>0.1705</b>	<b>0.9658</b>	<b>0.0859</b>	<b>0.1568</b>	<b>0.2427</b>		<b>631.5787</b>	<b>631.5787</b>	<b>0.2043</b>		<b>636.6853</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.4 Reconductoring Segment Site Development Mobilization - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0506	1.4345	0.4149	4.3100e-003	0.1203	5.5300e-003	0.1259	0.0346	5.2900e-003	0.0399		458.8641	458.8641	0.0207		459.3805
Worker	0.0520	0.0375	0.3441	8.9000e-004	0.1051	6.8000e-004	0.1057	0.0279	6.2000e-004	0.0285		88.6542	88.6542	2.6600e-003		88.7207
<b>Total</b>	<b>0.1027</b>	<b>1.4720</b>	<b>0.7590</b>	<b>5.2000e-003</b>	<b>0.2254</b>	<b>6.2100e-003</b>	<b>0.2316</b>	<b>0.0625</b>	<b>5.9100e-003</b>	<b>0.0684</b>		<b>547.5182</b>	<b>547.5182</b>	<b>0.0233</b>		<b>548.1012</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3102	0.0000	0.3102	0.0335	0.0000	0.0335			0.0000			0.0000
Off-Road	0.3936	4.7810	2.4103	6.5200e-003		0.1705	0.1705		0.1568	0.1568	0.0000	631.5787	631.5787	0.2043		636.6853
<b>Total</b>	<b>0.3936</b>	<b>4.7810</b>	<b>2.4103</b>	<b>6.5200e-003</b>	<b>0.3102</b>	<b>0.1705</b>	<b>0.4807</b>	<b>0.0335</b>	<b>0.1568</b>	<b>0.1903</b>	<b>0.0000</b>	<b>631.5787</b>	<b>631.5787</b>	<b>0.2043</b>		<b>636.6853</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.4 Reconductoring Segment Site Development Mobilization - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0506	1.4345	0.4149	4.3100e-003	0.1203	5.5300e-003	0.1259	0.0346	5.2900e-003	0.0399		458.8641	458.8641	0.0207		459.3805
Worker	0.0520	0.0375	0.3441	8.9000e-004	0.1051	6.8000e-004	0.1057	0.0279	6.2000e-004	0.0285		88.6542	88.6542	2.6600e-003		88.7207
<b>Total</b>	<b>0.1027</b>	<b>1.4720</b>	<b>0.7590</b>	<b>5.2000e-003</b>	<b>0.2254</b>	<b>6.2100e-003</b>	<b>0.2316</b>	<b>0.0625</b>	<b>5.9100e-003</b>	<b>0.0684</b>		<b>547.5182</b>	<b>547.5182</b>	<b>0.0233</b>		<b>548.1012</b>

**3.5 Reconductoring Segment Pole Installation Transfer Distribution Pole Removal - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7144	16.6546	10.2236	0.0373		0.6496	0.6496		0.5977	0.5977		3,611.1243	3,611.1243	1.1679		3,640.3221
<b>Total</b>	<b>1.7144</b>	<b>16.6546</b>	<b>10.2236</b>	<b>0.0373</b>		<b>0.6496</b>	<b>0.6496</b>		<b>0.5977</b>	<b>0.5977</b>		<b>3,611.1243</b>	<b>3,611.1243</b>	<b>1.1679</b>		<b>3,640.3221</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.5 Reconductoring Segment Pole Installation Transfer  
Distribution Pole Removal - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0658	1.8649	0.5394	5.6000e-003	0.1564	7.1900e-003	0.1636	0.0450	6.8800e-003	0.0519		596.5233	596.5233	0.0269		597.1947
Worker	0.0965	0.0678	0.6349	1.5600e-003	0.1828	1.2200e-003	0.1841	0.0485	1.1200e-003	0.0496		155.6195	155.6195	4.8100e-003		155.7398
<b>Total</b>	<b>0.1623</b>	<b>1.9327</b>	<b>1.1743</b>	<b>7.1600e-003</b>	<b>0.3392</b>	<b>8.4100e-003</b>	<b>0.3477</b>	<b>0.0935</b>	<b>8.0000e-003</b>	<b>0.1015</b>		<b>752.1429</b>	<b>752.1429</b>	<b>0.0317</b>		<b>752.9345</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7144	16.6546	10.2236	0.0373		0.6496	0.6496		0.5977	0.5977	0.0000	3,611.1243	3,611.1243	1.1679		3,640.3221
<b>Total</b>	<b>1.7144</b>	<b>16.6546</b>	<b>10.2236</b>	<b>0.0373</b>		<b>0.6496</b>	<b>0.6496</b>		<b>0.5977</b>	<b>0.5977</b>	<b>0.0000</b>	<b>3,611.1243</b>	<b>3,611.1243</b>	<b>1.1679</b>		<b>3,640.3221</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.5 Reconductoring Segment Pole Installation Transfer  
Distribution Pole Removal - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0658	1.8649	0.5394	5.6000e-003	0.1564	7.1900e-003	0.1636	0.0450	6.8800e-003	0.0519		596.5233	596.5233	0.0269		597.1947
Worker	0.0965	0.0678	0.6349	1.5600e-003	0.1828	1.2200e-003	0.1841	0.0485	1.1200e-003	0.0496		155.6195	155.6195	4.8100e-003		155.7398
<b>Total</b>	<b>0.1623</b>	<b>1.9327</b>	<b>1.1743</b>	<b>7.1600e-003</b>	<b>0.3392</b>	<b>8.4100e-003</b>	<b>0.3477</b>	<b>0.0935</b>	<b>8.0000e-003</b>	<b>0.1015</b>		<b>752.1429</b>	<b>752.1429</b>	<b>0.0317</b>		<b>752.9345</b>

**3.5 Reconductoring Segment Pole Installation Transfer  
Distribution Pole Removal - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6258	15.0514	9.9920	0.0373		0.5892	0.5892		0.5421	0.5421		3,613.6088	3,613.6088	1.1687		3,642.8266
<b>Total</b>	<b>1.6258</b>	<b>15.0514</b>	<b>9.9920</b>	<b>0.0373</b>		<b>0.5892</b>	<b>0.5892</b>		<b>0.5421</b>	<b>0.5421</b>		<b>3,613.6088</b>	<b>3,613.6088</b>	<b>1.1687</b>		<b>3,642.8266</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.5 Reconductoring Segment Pole Installation Transfer  
Distribution Pole Removal - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0497	1.4382	0.4732	5.4800e-003	0.1564	3.3900e-003	0.1598	0.0450	3.2400e-003	0.0482		585.0967	585.0967	0.0248		585.7170
Worker	0.0904	0.0608	0.5781	1.5000e-003	0.1828	1.1900e-003	0.1840	0.0485	1.0900e-003	0.0496		149.7969	149.7969	4.2800e-003		149.9040
<b>Total</b>	<b>0.1401</b>	<b>1.4990</b>	<b>1.0513</b>	<b>6.9800e-003</b>	<b>0.3393</b>	<b>4.5800e-003</b>	<b>0.3438</b>	<b>0.0935</b>	<b>4.3300e-003</b>	<b>0.0979</b>		<b>734.8936</b>	<b>734.8936</b>	<b>0.0291</b>		<b>735.6210</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6258	15.0514	9.9920	0.0373		0.5892	0.5892		0.5421	0.5421	0.0000	3,613.6088	3,613.6088	1.1687		3,642.8266
<b>Total</b>	<b>1.6258</b>	<b>15.0514</b>	<b>9.9920</b>	<b>0.0373</b>		<b>0.5892</b>	<b>0.5892</b>		<b>0.5421</b>	<b>0.5421</b>	<b>0.0000</b>	<b>3,613.6088</b>	<b>3,613.6088</b>	<b>1.1687</b>		<b>3,642.8266</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.5 Reconductoring Segment Pole Installation Transfer  
Distribution Pole Removal - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0497	1.4382	0.4732	5.4800e-003	0.1564	3.3900e-003	0.1598	0.0450	3.2400e-003	0.0482		585.0967	585.0967	0.0248		585.7170
Worker	0.0904	0.0608	0.5781	1.5000e-003	0.1828	1.1900e-003	0.1840	0.0485	1.0900e-003	0.0496		149.7969	149.7969	4.2800e-003		149.9040
<b>Total</b>	<b>0.1401</b>	<b>1.4990</b>	<b>1.0513</b>	<b>6.9800e-003</b>	<b>0.3393</b>	<b>4.5800e-003</b>	<b>0.3438</b>	<b>0.0935</b>	<b>4.3300e-003</b>	<b>0.0979</b>		<b>734.8936</b>	<b>734.8936</b>	<b>0.0291</b>		<b>735.6210</b>

**3.6 230-kV Substation Access Roads - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.3863	11.3787	11.1933	0.0327		0.4721	0.4721		0.4344	0.4344		3,160.4485	3,160.4485	1.0222		3,186.0023
<b>Total</b>	<b>1.3863</b>	<b>11.3787</b>	<b>11.1933</b>	<b>0.0327</b>	<b>0.0000</b>	<b>0.4721</b>	<b>0.4721</b>	<b>0.0000</b>	<b>0.4344</b>	<b>0.4344</b>		<b>3,160.4485</b>	<b>3,160.4485</b>	<b>1.0222</b>		<b>3,186.0023</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.6 230-kV Substation Access Roads - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0689	2.2514	0.7194	3.3200e-003	0.0588	4.2600e-003	0.0630	0.0170	4.0700e-003	0.0211		354.3178	354.3178	0.0319		355.1149
Worker	0.0743	0.0541	0.4922	1.3000e-003	0.1543	9.8000e-004	0.1553	0.0409	9.0000e-004	0.0418		129.7146	129.7146	3.8400e-003		129.8106
<b>Total</b>	<b>0.1432</b>	<b>2.3054</b>	<b>1.2117</b>	<b>4.6200e-003</b>	<b>0.2131</b>	<b>5.2400e-003</b>	<b>0.2183</b>	<b>0.0579</b>	<b>4.9700e-003</b>	<b>0.0629</b>		<b>484.0324</b>	<b>484.0324</b>	<b>0.0357</b>		<b>484.9255</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.3863	11.3787	11.1933	0.0327		0.4721	0.4721		0.4344	0.4344	0.0000	3,160.4485	3,160.4485	1.0222		3,186.0023
<b>Total</b>	<b>1.3863</b>	<b>11.3787</b>	<b>11.1933</b>	<b>0.0327</b>	<b>0.0000</b>	<b>0.4721</b>	<b>0.4721</b>	<b>0.0000</b>	<b>0.4344</b>	<b>0.4344</b>	<b>0.0000</b>	<b>3,160.4485</b>	<b>3,160.4485</b>	<b>1.0222</b>		<b>3,186.0023</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.6 230-kV Substation Access Roads - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0689	2.2514	0.7194	3.3200e-003	0.0588	4.2600e-003	0.0630	0.0170	4.0700e-003	0.0211		354.3178	354.3178	0.0319		355.1149
Worker	0.0743	0.0541	0.4922	1.3000e-003	0.1543	9.8000e-004	0.1553	0.0409	9.0000e-004	0.0418		129.7146	129.7146	3.8400e-003		129.8106
<b>Total</b>	<b>0.1432</b>	<b>2.3054</b>	<b>1.2117</b>	<b>4.6200e-003</b>	<b>0.2131</b>	<b>5.2400e-003</b>	<b>0.2183</b>	<b>0.0579</b>	<b>4.9700e-003</b>	<b>0.0629</b>		<b>484.0324</b>	<b>484.0324</b>	<b>0.0357</b>		<b>484.9255</b>

**3.7 230-kV Substation Site Prep Grading Entrance Road Culverts**

**Mobilization - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2392	0.0000	7.2392	3.4427	0.0000	3.4427			0.0000			0.0000
Off-Road	6.6584	59.5744	42.1219	0.1410		2.3287	2.3287		2.1424	2.1424		13,644.8698	13,644.8698	4.4130		13,755.1955
<b>Total</b>	<b>6.6584</b>	<b>59.5744</b>	<b>42.1219</b>	<b>0.1410</b>	<b>7.2392</b>	<b>2.3287</b>	<b>9.5680</b>	<b>3.4427</b>	<b>2.1424</b>	<b>5.5851</b>		<b>13,644.8698</b>	<b>13,644.8698</b>	<b>4.4130</b>		<b>13,755.1955</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.7 230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1262	4.3441	1.0857	0.0124	0.2860	0.0176	0.3036	0.0784	0.0169	0.0952		1,344.4775	1,344.4775	0.0820		1,346.5275
Vendor	0.0570	1.9044	0.6168	2.3900e-003	0.0340	3.0700e-003	0.0371	9.8700e-003	2.9300e-003	0.0128		255.6080	255.6080	0.0269		256.2806
Worker	0.0764	0.0551	0.5054	1.3200e-003	0.1553	1.0000e-003	0.1563	0.0412	9.2000e-004	0.0421		130.9333	130.9333	3.9200e-003		131.0312
<b>Total</b>	<b>0.2596</b>	<b>6.3035</b>	<b>2.2079</b>	<b>0.0161</b>	<b>0.4753</b>	<b>0.0217</b>	<b>0.4970</b>	<b>0.1294</b>	<b>0.0207</b>	<b>0.1501</b>		<b>1,731.0187</b>	<b>1,731.0187</b>	<b>0.1128</b>		<b>1,733.8393</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8233	0.0000	2.8233	1.3427	0.0000	1.3427			0.0000			0.0000
Off-Road	6.6584	59.5744	42.1219	0.1410		2.3287	2.3287		2.1424	2.1424	0.0000	13,644.8698	13,644.8698	4.4130		13,755.1955
<b>Total</b>	<b>6.6584</b>	<b>59.5744</b>	<b>42.1219</b>	<b>0.1410</b>	<b>2.8233</b>	<b>2.3287</b>	<b>5.1520</b>	<b>1.3427</b>	<b>2.1424</b>	<b>3.4851</b>	<b>0.0000</b>	<b>13,644.8698</b>	<b>13,644.8698</b>	<b>4.4130</b>		<b>13,755.1955</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.7 230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1262	4.3441	1.0857	0.0124	0.2860	0.0176	0.3036	0.0784	0.0169	0.0952		1,344.4775	1,344.4775	0.0820		1,346.5275
Vendor	0.0570	1.9044	0.6168	2.3900e-003	0.0340	3.0700e-003	0.0371	9.8700e-003	2.9300e-003	0.0128		255.6080	255.6080	0.0269		256.2806
Worker	0.0764	0.0551	0.5054	1.3200e-003	0.1553	1.0000e-003	0.1563	0.0412	9.2000e-004	0.0421		130.9333	130.9333	3.9200e-003		131.0312
<b>Total</b>	<b>0.2596</b>	<b>6.3035</b>	<b>2.2079</b>	<b>0.0161</b>	<b>0.4753</b>	<b>0.0217</b>	<b>0.4970</b>	<b>0.1294</b>	<b>0.0207</b>	<b>0.1501</b>		<b>1,731.0187</b>	<b>1,731.0187</b>	<b>0.1128</b>		<b>1,733.8393</b>

**3.8 230-kV Substation Fence and Gate Installation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0348	0.4643	0.6936	1.0400e-003		0.0173	0.0173		0.0159	0.0159		100.1956	100.1956	0.0324		101.0058
<b>Total</b>	<b>0.0348</b>	<b>0.4643</b>	<b>0.6936</b>	<b>1.0400e-003</b>		<b>0.0173</b>	<b>0.0173</b>		<b>0.0159</b>	<b>0.0159</b>		<b>100.1956</b>	<b>100.1956</b>	<b>0.0324</b>		<b>101.0058</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.8 230-kV Substation Fence and Gate Installation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0623	2.0365	0.6514	2.9700e-003	0.0520	3.8100e-003	0.0559	0.0150	3.6500e-003	0.0187		317.3571	317.3571	0.0288		318.0781
Worker	0.0436	0.0303	0.2863	6.9000e-004	0.0805	5.4000e-004	0.0810	0.0214	5.0000e-004	0.0219		68.7346	68.7346	2.1500e-003		68.7884
<b>Total</b>	<b>0.1059</b>	<b>2.0668</b>	<b>0.9377</b>	<b>3.6600e-003</b>	<b>0.1325</b>	<b>4.3500e-003</b>	<b>0.1368</b>	<b>0.0364</b>	<b>4.1500e-003</b>	<b>0.0405</b>		<b>386.0918</b>	<b>386.0918</b>	<b>0.0310</b>		<b>386.8665</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0348	0.4643	0.6936	1.0400e-003		0.0173	0.0173		0.0159	0.0159	0.0000	100.1956	100.1956	0.0324		101.0058
<b>Total</b>	<b>0.0348</b>	<b>0.4643</b>	<b>0.6936</b>	<b>1.0400e-003</b>		<b>0.0173</b>	<b>0.0173</b>		<b>0.0159</b>	<b>0.0159</b>	<b>0.0000</b>	<b>100.1956</b>	<b>100.1956</b>	<b>0.0324</b>		<b>101.0058</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.8 230-kV Substation Fence and Gate Installation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0623	2.0365	0.6514	2.9700e-003	0.0520	3.8100e-003	0.0559	0.0150	3.6500e-003	0.0187		317.3571	317.3571	0.0288		318.0781
Worker	0.0436	0.0303	0.2863	6.9000e-004	0.0805	5.4000e-004	0.0810	0.0214	5.0000e-004	0.0219		68.7346	68.7346	2.1500e-003		68.7884
<b>Total</b>	<b>0.1059</b>	<b>2.0668</b>	<b>0.9377</b>	<b>3.6600e-003</b>	<b>0.1325</b>	<b>4.3500e-003</b>	<b>0.1368</b>	<b>0.0364</b>	<b>4.1500e-003</b>	<b>0.0405</b>		<b>386.0918</b>	<b>386.0918</b>	<b>0.0310</b>		<b>386.8665</b>

**3.9 Reconductoring Segment Conductor Installation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.8207	21.9934	19.2902	0.0672		0.8771	0.8771		0.8069	0.8069		6,502.7190	6,502.7190	2.1031		6,555.2967
<b>Total</b>	<b>2.8207</b>	<b>21.9934</b>	<b>19.2902</b>	<b>0.0672</b>		<b>0.8771</b>	<b>0.8771</b>		<b>0.8069</b>	<b>0.8069</b>		<b>6,502.7190</b>	<b>6,502.7190</b>	<b>2.1031</b>		<b>6,555.2967</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.9 Reconductoring Segment Conductor Installation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0506	1.4345	0.4149	4.3100e-003	0.1203	5.5300e-003	0.1259	0.0346	5.2900e-003	0.0399		458.8641	458.8641	0.0207		459.3805
Worker	0.0797	0.0572	0.5268	1.3600e-003	0.1598	1.0300e-003	0.1609	0.0424	9.5000e-004	0.0434		134.9800	134.9800	4.0600e-003		135.0816
<b>Total</b>	<b>0.1303</b>	<b>1.4918</b>	<b>0.9417</b>	<b>5.6700e-003</b>	<b>0.2801</b>	<b>6.5600e-003</b>	<b>0.2867</b>	<b>0.0770</b>	<b>6.2400e-003</b>	<b>0.0833</b>		<b>593.8441</b>	<b>593.8441</b>	<b>0.0247</b>		<b>594.4621</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.8207	21.9934	19.2902	0.0672		0.8771	0.8771		0.8069	0.8069	0.0000	6,502.7189	6,502.7189	2.1031		6,555.2967
<b>Total</b>	<b>2.8207</b>	<b>21.9934</b>	<b>19.2902</b>	<b>0.0672</b>		<b>0.8771</b>	<b>0.8771</b>		<b>0.8069</b>	<b>0.8069</b>	<b>0.0000</b>	<b>6,502.7189</b>	<b>6,502.7189</b>	<b>2.1031</b>		<b>6,555.2967</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.9 Reconductoring Segment Conductor Installation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0506	1.4345	0.4149	4.3100e-003	0.1203	5.5300e-003	0.1259	0.0346	5.2900e-003	0.0399		458.8641	458.8641	0.0207		459.3805
Worker	0.0797	0.0572	0.5268	1.3600e-003	0.1598	1.0300e-003	0.1609	0.0424	9.5000e-004	0.0434		134.9800	134.9800	4.0600e-003		135.0816
<b>Total</b>	<b>0.1303</b>	<b>1.4918</b>	<b>0.9417</b>	<b>5.6700e-003</b>	<b>0.2801</b>	<b>6.5600e-003</b>	<b>0.2867</b>	<b>0.0770</b>	<b>6.2400e-003</b>	<b>0.0833</b>		<b>593.8441</b>	<b>593.8441</b>	<b>0.0247</b>		<b>594.4621</b>

**3.9 Reconductoring Segment Conductor Installation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6753	19.6218	18.9364	0.0672		0.7684	0.7684		0.7069	0.7069		6,507.0092	6,507.0092	2.1045		6,559.6217
<b>Total</b>	<b>2.6753</b>	<b>19.6218</b>	<b>18.9364</b>	<b>0.0672</b>		<b>0.7684</b>	<b>0.7684</b>		<b>0.7069</b>	<b>0.7069</b>		<b>6,507.0092</b>	<b>6,507.0092</b>	<b>2.1045</b>		<b>6,559.6217</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.9 Reconductoring Segment Conductor Installation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0382	1.1063	0.3640	4.2200e-003	0.1203	2.6000e-003	0.1229	0.0346	2.4900e-003	0.0371		450.0744	450.0744	0.0191		450.5515
Worker	0.0748	0.0514	0.4799	1.3000e-003	0.1598	1.0100e-003	0.1608	0.0424	9.3000e-004	0.0433		129.9261	129.9261	3.6200e-003		130.0166
<b>Total</b>	<b>0.1130</b>	<b>1.1577</b>	<b>0.8439</b>	<b>5.5200e-003</b>	<b>0.2802</b>	<b>3.6100e-003</b>	<b>0.2838</b>	<b>0.0770</b>	<b>3.4200e-003</b>	<b>0.0804</b>		<b>580.0005</b>	<b>580.0005</b>	<b>0.0227</b>		<b>580.5681</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6753	19.6218	18.9364	0.0672		0.7684	0.7684		0.7069	0.7069	0.0000	6,507.0092	6,507.0092	2.1045		6,559.6216
<b>Total</b>	<b>2.6753</b>	<b>19.6218</b>	<b>18.9364</b>	<b>0.0672</b>		<b>0.7684</b>	<b>0.7684</b>		<b>0.7069</b>	<b>0.7069</b>	<b>0.0000</b>	<b>6,507.0092</b>	<b>6,507.0092</b>	<b>2.1045</b>		<b>6,559.6216</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.9 Reconductoring Segment Conductor Installation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0382	1.1063	0.3640	4.2200e-003	0.1203	2.6000e-003	0.1229	0.0346	2.4900e-003	0.0371		450.0744	450.0744	0.0191		450.5515
Worker	0.0748	0.0514	0.4799	1.3000e-003	0.1598	1.0100e-003	0.1608	0.0424	9.3000e-004	0.0433		129.9261	129.9261	3.6200e-003		130.0166
<b>Total</b>	<b>0.1130</b>	<b>1.1577</b>	<b>0.8439</b>	<b>5.5200e-003</b>	<b>0.2802</b>	<b>3.6100e-003</b>	<b>0.2838</b>	<b>0.0770</b>	<b>3.4200e-003</b>	<b>0.0804</b>		<b>580.0005</b>	<b>580.0005</b>	<b>0.0227</b>		<b>580.5681</b>

**3.10 230-kV Substation Foundation Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5602	5.9289	4.6226	0.0150		0.2377	0.2377		0.2187	0.2187		1,451.1041	1,451.1041	0.4693		1,462.8371
<b>Total</b>	<b>0.5602</b>	<b>5.9289</b>	<b>4.6226</b>	<b>0.0150</b>		<b>0.2377</b>	<b>0.2377</b>		<b>0.2187</b>	<b>0.2187</b>		<b>1,451.1041</b>	<b>1,451.1041</b>	<b>0.4693</b>		<b>1,462.8371</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.10 230-kV Substation Foundation Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0643	2.1044	0.6731	3.0700e-003	0.0538	3.9400e-003	0.0577	0.0155	3.7700e-003	0.0193		327.9357	327.9357	0.0298		328.6807
Worker	0.0677	0.0492	0.4485	1.1800e-003	0.1403	8.9000e-004	0.1412	0.0372	8.2000e-004	0.0380		117.9583	117.9583	3.5000e-003		118.0457
<b>Total</b>	<b>0.1320</b>	<b>2.1536</b>	<b>1.1216</b>	<b>4.2500e-003</b>	<b>0.1941</b>	<b>4.8300e-003</b>	<b>0.1989</b>	<b>0.0528</b>	<b>4.5900e-003</b>	<b>0.0574</b>		<b>445.8940</b>	<b>445.8940</b>	<b>0.0333</b>		<b>446.7263</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5602	5.9289	4.6226	0.0150		0.2377	0.2377		0.2187	0.2187	0.0000	1,451.1041	1,451.1041	0.4693		1,462.8371
<b>Total</b>	<b>0.5602</b>	<b>5.9289</b>	<b>4.6226</b>	<b>0.0150</b>		<b>0.2377</b>	<b>0.2377</b>		<b>0.2187</b>	<b>0.2187</b>	<b>0.0000</b>	<b>1,451.1041</b>	<b>1,451.1041</b>	<b>0.4693</b>		<b>1,462.8371</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.10 230-kV Substation Foundation Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0643	2.1044	0.6731	3.0700e-003	0.0538	3.9400e-003	0.0577	0.0155	3.7700e-003	0.0193		327.9357	327.9357	0.0298		328.6807
Worker	0.0677	0.0492	0.4485	1.1800e-003	0.1403	8.9000e-004	0.1412	0.0372	8.2000e-004	0.0380		117.9583	117.9583	3.5000e-003		118.0457
<b>Total</b>	<b>0.1320</b>	<b>2.1536</b>	<b>1.1216</b>	<b>4.2500e-003</b>	<b>0.1941</b>	<b>4.8300e-003</b>	<b>0.1989</b>	<b>0.0528</b>	<b>4.5900e-003</b>	<b>0.0574</b>		<b>445.8940</b>	<b>445.8940</b>	<b>0.0333</b>		<b>446.7263</b>

**3.11 70-kV Substation Mobilization - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2651	0.0000	0.2651	0.0286	0.0000	0.0286			0.0000			0.0000
Off-Road	0.2899	3.4666	1.9799	4.8700e-003		0.1287	0.1287		0.1184	0.1184		471.2589	471.2589	0.1524		475.0693
<b>Total</b>	<b>0.2899</b>	<b>3.4666</b>	<b>1.9799</b>	<b>4.8700e-003</b>	<b>0.2651</b>	<b>0.1287</b>	<b>0.3938</b>	<b>0.0286</b>	<b>0.1184</b>	<b>0.1470</b>		<b>471.2589</b>	<b>471.2589</b>	<b>0.1524</b>		<b>475.0693</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.11 70-kV Substation Mobilization - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0304	0.8607	0.2489	2.5800e-003	0.0722	3.3200e-003	0.0755	0.0208	3.1800e-003	0.0239		275.3185	275.3185	0.0124		275.6283
Worker	0.0463	0.0333	0.3062	7.9000e-004	0.0935	6.0000e-004	0.0941	0.0248	5.6000e-004	0.0254		78.9021	78.9021	2.3700e-003		78.9612
<b>Total</b>	<b>0.0767</b>	<b>0.8941</b>	<b>0.5551</b>	<b>3.3700e-003</b>	<b>0.1657</b>	<b>3.9200e-003</b>	<b>0.1696</b>	<b>0.0456</b>	<b>3.7400e-003</b>	<b>0.0493</b>		<b>354.2205</b>	<b>354.2205</b>	<b>0.0148</b>		<b>354.5896</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1034	0.0000	0.1034	0.0112	0.0000	0.0112			0.0000			0.0000
Off-Road	0.2899	3.4666	1.9799	4.8700e-003		0.1287	0.1287		0.1184	0.1184	0.0000	471.2589	471.2589	0.1524		475.0693
<b>Total</b>	<b>0.2899</b>	<b>3.4666</b>	<b>1.9799</b>	<b>4.8700e-003</b>	<b>0.1034</b>	<b>0.1287</b>	<b>0.2321</b>	<b>0.0112</b>	<b>0.1184</b>	<b>0.1295</b>	<b>0.0000</b>	<b>471.2589</b>	<b>471.2589</b>	<b>0.1524</b>		<b>475.0693</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.11 70-kV Substation Mobilization - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0304	0.8607	0.2489	2.5800e-003	0.0722	3.3200e-003	0.0755	0.0208	3.1800e-003	0.0239		275.3185	275.3185	0.0124		275.6283
Worker	0.0463	0.0333	0.3062	7.9000e-004	0.0935	6.0000e-004	0.0941	0.0248	5.6000e-004	0.0254		78.9021	78.9021	2.3700e-003		78.9612
<b>Total</b>	<b>0.0767</b>	<b>0.8941</b>	<b>0.5551</b>	<b>3.3700e-003</b>	<b>0.1657</b>	<b>3.9200e-003</b>	<b>0.1696</b>	<b>0.0456</b>	<b>3.7400e-003</b>	<b>0.0493</b>		<b>354.2205</b>	<b>354.2205</b>	<b>0.0148</b>		<b>354.5896</b>

**3.12 70-kV Substation Foundation Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7527	7.3217	6.8781	0.0159		0.4023	0.4023		0.3702	0.3702		1,541.7492	1,541.7492	0.4986		1,554.2150
<b>Total</b>	<b>0.7527</b>	<b>7.3217</b>	<b>6.8781</b>	<b>0.0159</b>		<b>0.4023</b>	<b>0.4023</b>		<b>0.3702</b>	<b>0.3702</b>		<b>1,541.7492</b>	<b>1,541.7492</b>	<b>0.4986</b>		<b>1,554.2150</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.12 70-kV Substation Foundation Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0658	1.8649	0.5394	5.6000e-003	0.1564	7.1900e-003	0.1636	0.0450	6.8800e-003	0.0519		596.5233	596.5233	0.0269		597.1947
Worker	0.0681	0.0496	0.4512	1.1900e-003	0.1415	9.0000e-004	0.1424	0.0375	8.3000e-004	0.0384		118.9051	118.9051	3.5200e-003		118.9931
<b>Total</b>	<b>0.1339</b>	<b>1.9145</b>	<b>0.9906</b>	<b>6.7900e-003</b>	<b>0.2979</b>	<b>8.0900e-003</b>	<b>0.3060</b>	<b>0.0825</b>	<b>7.7100e-003</b>	<b>0.0902</b>		<b>715.4284</b>	<b>715.4284</b>	<b>0.0304</b>		<b>716.1877</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7527	7.3217	6.8781	0.0159		0.4023	0.4023		0.3702	0.3702	0.0000	1,541.7492	1,541.7492	0.4986		1,554.2150
<b>Total</b>	<b>0.7527</b>	<b>7.3217</b>	<b>6.8781</b>	<b>0.0159</b>		<b>0.4023</b>	<b>0.4023</b>		<b>0.3702</b>	<b>0.3702</b>	<b>0.0000</b>	<b>1,541.7492</b>	<b>1,541.7492</b>	<b>0.4986</b>		<b>1,554.2150</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.12 70-kV Substation Foundation Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0658	1.8649	0.5394	5.6000e-003	0.1564	7.1900e-003	0.1636	0.0450	6.8800e-003	0.0519		596.5233	596.5233	0.0269		597.1947
Worker	0.0681	0.0496	0.4512	1.1900e-003	0.1415	9.0000e-004	0.1424	0.0375	8.3000e-004	0.0384		118.9051	118.9051	3.5200e-003		118.9931
<b>Total</b>	<b>0.1339</b>	<b>1.9145</b>	<b>0.9906</b>	<b>6.7900e-003</b>	<b>0.2979</b>	<b>8.0900e-003</b>	<b>0.3060</b>	<b>0.0825</b>	<b>7.7100e-003</b>	<b>0.0902</b>		<b>715.4284</b>	<b>715.4284</b>	<b>0.0304</b>		<b>716.1877</b>

**3.13 70-kV Substation Ground Grid Conduit Installation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3964	3.7915	3.6277	4.8600e-003		0.2472	0.2472		0.2274	0.2274		471.1413	471.1413	0.1524		474.9507
<b>Total</b>	<b>0.3964</b>	<b>3.7915</b>	<b>3.6277</b>	<b>4.8600e-003</b>		<b>0.2472</b>	<b>0.2472</b>		<b>0.2274</b>	<b>0.2274</b>		<b>471.1413</b>	<b>471.1413</b>	<b>0.1524</b>		<b>474.9507</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.13 70-kV Substation Ground Grid Conduit Installation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0456	1.2911	0.3734	3.8700e-003	0.1083	4.9800e-003	0.1133	0.0312	4.7600e-003	0.0359		412.9777	412.9777	0.0186		413.4425
Worker	0.0371	0.0270	0.2461	6.5000e-004	0.0772	4.9000e-004	0.0776	0.0205	4.5000e-004	0.0209		64.8573	64.8573	1.9200e-003		64.9053
<b>Total</b>	<b>0.0827</b>	<b>1.3181</b>	<b>0.6195</b>	<b>4.5200e-003</b>	<b>0.1854</b>	<b>5.4700e-003</b>	<b>0.1909</b>	<b>0.0516</b>	<b>5.2100e-003</b>	<b>0.0568</b>		<b>477.8350</b>	<b>477.8350</b>	<b>0.0205</b>		<b>478.3478</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3964	3.7915	3.6277	4.8600e-003		0.2472	0.2472		0.2274	0.2274	0.0000	471.1413	471.1413	0.1524		474.9507
<b>Total</b>	<b>0.3964</b>	<b>3.7915</b>	<b>3.6277</b>	<b>4.8600e-003</b>		<b>0.2472</b>	<b>0.2472</b>		<b>0.2274</b>	<b>0.2274</b>	<b>0.0000</b>	<b>471.1413</b>	<b>471.1413</b>	<b>0.1524</b>		<b>474.9507</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.13 70-kV Substation Ground Grid Conduit Installation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0456	1.2911	0.3734	3.8700e-003	0.1083	4.9800e-003	0.1133	0.0312	4.7600e-003	0.0359		412.9777	412.9777	0.0186		413.4425
Worker	0.0371	0.0270	0.2461	6.5000e-004	0.0772	4.9000e-004	0.0776	0.0205	4.5000e-004	0.0209		64.8573	64.8573	1.9200e-003		64.9053
<b>Total</b>	<b>0.0827</b>	<b>1.3181</b>	<b>0.6195</b>	<b>4.5200e-003</b>	<b>0.1854</b>	<b>5.4700e-003</b>	<b>0.1909</b>	<b>0.0516</b>	<b>5.2100e-003</b>	<b>0.0568</b>		<b>477.8350</b>	<b>477.8350</b>	<b>0.0205</b>		<b>478.3478</b>

**3.14 230-kV Substation Ground Grid Conduit Installation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3639	3.3797	2.5990	3.3700e-003		0.2395	0.2395		0.2203	0.2203		326.9494	326.9494	0.1057		329.5930
<b>Total</b>	<b>0.3639</b>	<b>3.3797</b>	<b>2.5990</b>	<b>3.3700e-003</b>		<b>0.2395</b>	<b>0.2395</b>		<b>0.2203</b>	<b>0.2203</b>		<b>326.9494</b>	<b>326.9494</b>	<b>0.1057</b>		<b>329.5930</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.14 230-kV Substation Ground Grid Conduit Installation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0529	1.7839	0.5813	2.0600e-003	0.0251	2.6400e-003	0.0278	7.3000e-003	2.5300e-003	9.8300e-003		220.4565	220.4565	0.0252		221.0858
Worker	0.0393	0.0289	0.2611	7.0000e-004	0.0835	5.2000e-004	0.0841	0.0222	4.8000e-004	0.0226		70.0216	70.0216	2.0500e-003		70.0729
<b>Total</b>	<b>0.0922</b>	<b>1.8128</b>	<b>0.8424</b>	<b>2.7600e-003</b>	<b>0.1087</b>	<b>3.1600e-003</b>	<b>0.1118</b>	<b>0.0295</b>	<b>3.0100e-003</b>	<b>0.0325</b>		<b>290.4781</b>	<b>290.4781</b>	<b>0.0272</b>		<b>291.1588</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3639	3.3797	2.5990	3.3700e-003		0.2395	0.2395		0.2203	0.2203	0.0000	326.9494	326.9494	0.1057		329.5930
<b>Total</b>	<b>0.3639</b>	<b>3.3797</b>	<b>2.5990</b>	<b>3.3700e-003</b>		<b>0.2395</b>	<b>0.2395</b>		<b>0.2203</b>	<b>0.2203</b>	<b>0.0000</b>	<b>326.9494</b>	<b>326.9494</b>	<b>0.1057</b>		<b>329.5930</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.14 230-kV Substation Ground Grid Conduit Installation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0529	1.7839	0.5813	2.0600e-003	0.0251	2.6400e-003	0.0278	7.3000e-003	2.5300e-003	9.8300e-003		220.4565	220.4565	0.0252		221.0858
Worker	0.0393	0.0289	0.2611	7.0000e-004	0.0835	5.2000e-004	0.0841	0.0222	4.8000e-004	0.0226		70.0216	70.0216	2.0500e-003		70.0729
<b>Total</b>	<b>0.0922</b>	<b>1.8128</b>	<b>0.8424</b>	<b>2.7600e-003</b>	<b>0.1087</b>	<b>3.1600e-003</b>	<b>0.1118</b>	<b>0.0295</b>	<b>3.0100e-003</b>	<b>0.0325</b>		<b>290.4781</b>	<b>290.4781</b>	<b>0.0272</b>		<b>291.1588</b>

**3.15 230-kV Substation Steel Bus Erection - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5550	4.4273	4.1662	0.0145		0.1536	0.1536		0.1413	0.1413		1,399.0142	1,399.0142	0.4525		1,410.3260
<b>Total</b>	<b>0.5550</b>	<b>4.4273</b>	<b>4.1662</b>	<b>0.0145</b>		<b>0.1536</b>	<b>0.1536</b>		<b>0.1413</b>	<b>0.1413</b>		<b>1,399.0142</b>	<b>1,399.0142</b>	<b>0.4525</b>		<b>1,410.3260</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.15 230-kV Substation Steel Bus Erection - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0570	1.9044	0.6168	2.3900e-003	0.0340	3.0700e-003	0.0371	9.8700e-003	2.9300e-003	0.0128		255.6080	255.6080	0.0269		256.2806
Worker	0.0406	0.0300	0.2699	7.3000e-004	0.0873	5.4000e-004	0.0878	0.0232	5.0000e-004	0.0237		73.0464	73.0464	2.1300e-003		73.0997
<b>Total</b>	<b>0.0976</b>	<b>1.9343</b>	<b>0.8867</b>	<b>3.1200e-003</b>	<b>0.1213</b>	<b>3.6100e-003</b>	<b>0.1249</b>	<b>0.0330</b>	<b>3.4300e-003</b>	<b>0.0365</b>		<b>328.6544</b>	<b>328.6544</b>	<b>0.0290</b>		<b>329.3803</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5550	4.4273	4.1662	0.0145		0.1536	0.1536		0.1413	0.1413	0.0000	1,399.0142	1,399.0142	0.4525		1,410.3260
<b>Total</b>	<b>0.5550</b>	<b>4.4273</b>	<b>4.1662</b>	<b>0.0145</b>		<b>0.1536</b>	<b>0.1536</b>		<b>0.1413</b>	<b>0.1413</b>	<b>0.0000</b>	<b>1,399.0142</b>	<b>1,399.0142</b>	<b>0.4525</b>		<b>1,410.3260</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.15 230-kV Substation Steel Bus Erection - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0570	1.9044	0.6168	2.3900e-003	0.0340	3.0700e-003	0.0371	9.8700e-003	2.9300e-003	0.0128		255.6080	255.6080	0.0269		256.2806
Worker	0.0406	0.0300	0.2699	7.3000e-004	0.0873	5.4000e-004	0.0878	0.0232	5.0000e-004	0.0237		73.0464	73.0464	2.1300e-003		73.0997
<b>Total</b>	<b>0.0976</b>	<b>1.9343</b>	<b>0.8867</b>	<b>3.1200e-003</b>	<b>0.1213</b>	<b>3.6100e-003</b>	<b>0.1249</b>	<b>0.0330</b>	<b>3.4300e-003</b>	<b>0.0365</b>		<b>328.6544</b>	<b>328.6544</b>	<b>0.0290</b>		<b>329.3803</b>

**3.15 230-kV Substation Steel Bus Erection - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5294	3.9615	4.0945	0.0145		0.1358	0.1358		0.1250	0.1250		1,399.9174	1,399.9174	0.4528		1,411.2365
<b>Total</b>	<b>0.5294</b>	<b>3.9615</b>	<b>4.0945</b>	<b>0.0145</b>		<b>0.1358</b>	<b>0.1358</b>		<b>0.1250</b>	<b>0.1250</b>		<b>1,399.9174</b>	<b>1,399.9174</b>	<b>0.4528</b>		<b>1,411.2365</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.15 230-kV Substation Steel Bus Erection - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0443	1.6831	0.5351	2.3600e-003	0.0340	1.3300e-003	0.0354	9.8700e-003	1.2700e-003	0.0111		252.8652	252.8652	0.0228		253.4344
Worker	0.0381	0.0269	0.2461	7.1000e-004	0.0873	5.3000e-004	0.0878	0.0232	4.9000e-004	0.0236		70.3092	70.3092	1.9000e-003		70.3567
<b>Total</b>	<b>0.0824</b>	<b>1.7100</b>	<b>0.7812</b>	<b>3.0700e-003</b>	<b>0.1213</b>	<b>1.8600e-003</b>	<b>0.1232</b>	<b>0.0330</b>	<b>1.7600e-003</b>	<b>0.0348</b>		<b>323.1744</b>	<b>323.1744</b>	<b>0.0247</b>		<b>323.7910</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5294	3.9615	4.0945	0.0145		0.1358	0.1358		0.1250	0.1250	0.0000	1,399.9174	1,399.9174	0.4528		1,411.2365
<b>Total</b>	<b>0.5294</b>	<b>3.9615</b>	<b>4.0945</b>	<b>0.0145</b>		<b>0.1358</b>	<b>0.1358</b>		<b>0.1250</b>	<b>0.1250</b>	<b>0.0000</b>	<b>1,399.9174</b>	<b>1,399.9174</b>	<b>0.4528</b>		<b>1,411.2365</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.15 230-kV Substation Steel Bus Erection - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0443	1.6831	0.5351	2.3600e-003	0.0340	1.3300e-003	0.0354	9.8700e-003	1.2700e-003	0.0111		252.8652	252.8652	0.0228		253.4344
Worker	0.0381	0.0269	0.2461	7.1000e-004	0.0873	5.3000e-004	0.0878	0.0232	4.9000e-004	0.0236		70.3092	70.3092	1.9000e-003		70.3567
<b>Total</b>	<b>0.0824</b>	<b>1.7100</b>	<b>0.7812</b>	<b>3.0700e-003</b>	<b>0.1213</b>	<b>1.8600e-003</b>	<b>0.1232</b>	<b>0.0330</b>	<b>1.7600e-003</b>	<b>0.0348</b>		<b>323.1744</b>	<b>323.1744</b>	<b>0.0247</b>		<b>323.7910</b>

**3.16 230-kV Substation Install Yard Rock - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7475	6.1779	5.9324	0.0191		0.2256	0.2256		0.2075	0.2075		1,849.2207	1,849.2207	0.5981		1,864.1726
<b>Total</b>	<b>0.7475</b>	<b>6.1779</b>	<b>5.9324</b>	<b>0.0191</b>		<b>0.2256</b>	<b>0.2256</b>		<b>0.2075</b>	<b>0.2075</b>		<b>1,849.2207</b>	<b>1,849.2207</b>	<b>0.5981</b>		<b>1,864.1726</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.16 230-kV Substation Install Yard Rock - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1758	5.1379	1.5222	0.0136	0.3619	0.0175	0.3794	0.1042	0.0167	0.1209		1,449.2970	1,449.2970	0.0737		1,451.1396
Worker	0.0581	0.0426	0.3859	1.0300e-003	0.1228	7.7000e-004	0.1236	0.0326	7.1000e-004	0.0333		103.0405	103.0405	3.0300e-003		103.1162
<b>Total</b>	<b>0.2339</b>	<b>5.1805</b>	<b>1.9081</b>	<b>0.0146</b>	<b>0.4847</b>	<b>0.0182</b>	<b>0.5030</b>	<b>0.1367</b>	<b>0.0174</b>	<b>0.1542</b>		<b>1,552.3375</b>	<b>1,552.3375</b>	<b>0.0767</b>		<b>1,554.2557</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7475	6.1779	5.9324	0.0191		0.2256	0.2256		0.2075	0.2075	0.0000	1,849.2207	1,849.2207	0.5981		1,864.1726
<b>Total</b>	<b>0.7475</b>	<b>6.1779</b>	<b>5.9324</b>	<b>0.0191</b>		<b>0.2256</b>	<b>0.2256</b>		<b>0.2075</b>	<b>0.2075</b>	<b>0.0000</b>	<b>1,849.2207</b>	<b>1,849.2207</b>	<b>0.5981</b>		<b>1,864.1726</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.16 230-kV Substation Install Yard Rock - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1758	5.1379	1.5222	0.0136	0.3619	0.0175	0.3794	0.1042	0.0167	0.1209		1,449.2970	1,449.2970	0.0737		1,451.1396
Worker	0.0581	0.0426	0.3859	1.0300e-003	0.1228	7.7000e-004	0.1236	0.0326	7.1000e-004	0.0333		103.0405	103.0405	3.0300e-003		103.1162
<b>Total</b>	<b>0.2339</b>	<b>5.1805</b>	<b>1.9081</b>	<b>0.0146</b>	<b>0.4847</b>	<b>0.0182</b>	<b>0.5030</b>	<b>0.1367</b>	<b>0.0174</b>	<b>0.1542</b>		<b>1,552.3375</b>	<b>1,552.3375</b>	<b>0.0767</b>		<b>1,554.2557</b>

**3.16 230-kV Substation Install Yard Rock - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7112	5.5407	5.8424	0.0191		0.1978	0.1978		0.1820	0.1820		1,850.4684	1,850.4684	0.5985		1,865.4304
<b>Total</b>	<b>0.7112</b>	<b>5.5407</b>	<b>5.8424</b>	<b>0.0191</b>		<b>0.1978</b>	<b>0.1978</b>		<b>0.1820</b>	<b>0.1820</b>		<b>1,850.4684</b>	<b>1,850.4684</b>	<b>0.5985</b>		<b>1,865.4304</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.16 230-kV Substation Install Yard Rock - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1333	4.0800	1.3321	0.0133	0.3620	8.1600e-003	0.3701	0.1042	7.8000e-003	0.1120		1,422.7178	1,422.7178	0.0669		1,424.3914
Worker	0.0546	0.0383	0.3517	1.0000e-003	0.1228	7.5000e-004	0.1236	0.0326	6.9000e-004	0.0333		99.1801	99.1801	2.7000e-003		99.2475
<b>Total</b>	<b>0.1879</b>	<b>4.1183</b>	<b>1.6838</b>	<b>0.0143</b>	<b>0.4848</b>	<b>8.9100e-003</b>	<b>0.4937</b>	<b>0.1368</b>	<b>8.4900e-003</b>	<b>0.1453</b>		<b>1,521.8978</b>	<b>1,521.8978</b>	<b>0.0696</b>		<b>1,523.6389</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7112	5.5407	5.8424	0.0191		0.1978	0.1978		0.1820	0.1820	0.0000	1,850.4684	1,850.4684	0.5985		1,865.4304
<b>Total</b>	<b>0.7112</b>	<b>5.5407</b>	<b>5.8424</b>	<b>0.0191</b>		<b>0.1978</b>	<b>0.1978</b>		<b>0.1820</b>	<b>0.1820</b>	<b>0.0000</b>	<b>1,850.4684</b>	<b>1,850.4684</b>	<b>0.5985</b>		<b>1,865.4304</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.16 230-kV Substation Install Yard Rock - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1333	4.0800	1.3321	0.0133	0.3620	8.1600e-003	0.3701	0.1042	7.8000e-003	0.1120		1,422.7178	1,422.7178	0.0669		1,424.3914
Worker	0.0546	0.0383	0.3517	1.0000e-003	0.1228	7.5000e-004	0.1236	0.0326	6.9000e-004	0.0333		99.1801	99.1801	2.7000e-003		99.2475
<b>Total</b>	<b>0.1879</b>	<b>4.1183</b>	<b>1.6838</b>	<b>0.0143</b>	<b>0.4848</b>	<b>8.9100e-003</b>	<b>0.4937</b>	<b>0.1368</b>	<b>8.4900e-003</b>	<b>0.1453</b>		<b>1,521.8978</b>	<b>1,521.8978</b>	<b>0.0696</b>		<b>1,523.6389</b>

**3.17 70-kV Substation Steel Bus Erection - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8239	6.4014	7.0821	0.0231		0.2117	0.2117		0.1947	0.1947		2,239.9099	2,239.9099	0.7244		2,258.0207
<b>Total</b>	<b>0.8239</b>	<b>6.4014</b>	<b>7.0821</b>	<b>0.0231</b>		<b>0.2117</b>	<b>0.2117</b>		<b>0.1947</b>	<b>0.1947</b>		<b>2,239.9099</b>	<b>2,239.9099</b>	<b>0.7244</b>		<b>2,258.0207</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.17 70-kV Substation Steel Bus Erection - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0344	0.9957	0.3276	3.8000e-003	0.1083	2.3400e-003	0.1107	0.0312	2.2400e-003	0.0334		405.0669	405.0669	0.0172		405.4964
Worker	0.0368	0.0252	0.2363	6.4000e-004	0.0782	4.9000e-004	0.0787	0.0208	4.6000e-004	0.0212		63.6377	63.6377	1.7800e-003		63.6821
<b>Total</b>	<b>0.0712</b>	<b>1.0209</b>	<b>0.5639</b>	<b>4.4400e-003</b>	<b>0.1865</b>	<b>2.8300e-003</b>	<b>0.1894</b>	<b>0.0519</b>	<b>2.7000e-003</b>	<b>0.0546</b>		<b>468.7046</b>	<b>468.7046</b>	<b>0.0190</b>		<b>469.1785</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8239	6.4014	7.0821	0.0231		0.2117	0.2117		0.1947	0.1947	0.0000	2,239.9099	2,239.9099	0.7244		2,258.0207
<b>Total</b>	<b>0.8239</b>	<b>6.4014</b>	<b>7.0821</b>	<b>0.0231</b>		<b>0.2117</b>	<b>0.2117</b>		<b>0.1947</b>	<b>0.1947</b>	<b>0.0000</b>	<b>2,239.9099</b>	<b>2,239.9099</b>	<b>0.7244</b>		<b>2,258.0207</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.17 70-kV Substation Steel Bus Erection - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0344	0.9957	0.3276	3.8000e-003	0.1083	2.3400e-003	0.1107	0.0312	2.2400e-003	0.0334		405.0669	405.0669	0.0172		405.4964
Worker	0.0368	0.0252	0.2363	6.4000e-004	0.0782	4.9000e-004	0.0787	0.0208	4.6000e-004	0.0212		63.6377	63.6377	1.7800e-003		63.6821
<b>Total</b>	<b>0.0712</b>	<b>1.0209</b>	<b>0.5639</b>	<b>4.4400e-003</b>	<b>0.1865</b>	<b>2.8300e-003</b>	<b>0.1894</b>	<b>0.0519</b>	<b>2.7000e-003</b>	<b>0.0546</b>		<b>468.7046</b>	<b>468.7046</b>	<b>0.0190</b>		<b>469.1785</b>

**3.18 230-kV Substation Transformer & Equip Delivery & Installation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8288	13.5256	13.6033	0.0467		0.5180	0.5180		0.4830	0.4830		4,507.8392	4,507.8392	1.3491		4,541.5672
<b>Total</b>	<b>1.8288</b>	<b>13.5256</b>	<b>13.6033</b>	<b>0.0467</b>		<b>0.5180</b>	<b>0.5180</b>		<b>0.4830</b>	<b>0.4830</b>		<b>4,507.8392</b>	<b>4,507.8392</b>	<b>1.3491</b>		<b>4,541.5672</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.18 230-kV Substation Transformer & Equip Delivery & Installation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0440	1.6762	0.5328	2.3200e-003	0.0327	1.3000e-003	0.0340	9.4700e-003	1.2500e-003	0.0107		248.2154	248.2154	0.0226		248.7809
Worker	0.0526	0.0367	0.3385	9.5000e-004	0.1167	7.2000e-004	0.1174	0.0310	6.6000e-004	0.0316		94.3874	94.3874	2.5900e-003		94.4520
<b>Total</b>	<b>0.0965</b>	<b>1.7129</b>	<b>0.8713</b>	<b>3.2700e-003</b>	<b>0.1493</b>	<b>2.0200e-003</b>	<b>0.1514</b>	<b>0.0404</b>	<b>1.9100e-003</b>	<b>0.0423</b>		<b>342.6027</b>	<b>342.6027</b>	<b>0.0252</b>		<b>343.2329</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8288	13.5256	13.6033	0.0467		0.5180	0.5180		0.4830	0.4830	0.0000	4,507.8392	4,507.8392	1.3491		4,541.5671
<b>Total</b>	<b>1.8288</b>	<b>13.5256</b>	<b>13.6033</b>	<b>0.0467</b>		<b>0.5180</b>	<b>0.5180</b>		<b>0.4830</b>	<b>0.4830</b>	<b>0.0000</b>	<b>4,507.8392</b>	<b>4,507.8392</b>	<b>1.3491</b>		<b>4,541.5671</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.18 230-kV Substation Transformer & Equip Delivery & Installation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0440	1.6762	0.5328	2.3200e-003	0.0327	1.3000e-003	0.0340	9.4700e-003	1.2500e-003	0.0107		248.2154	248.2154	0.0226		248.7809
Worker	0.0526	0.0367	0.3385	9.5000e-004	0.1167	7.2000e-004	0.1174	0.0310	6.6000e-004	0.0316		94.3874	94.3874	2.5900e-003		94.4520
<b>Total</b>	<b>0.0965</b>	<b>1.7129</b>	<b>0.8713</b>	<b>3.2700e-003</b>	<b>0.1493</b>	<b>2.0200e-003</b>	<b>0.1514</b>	<b>0.0404</b>	<b>1.9100e-003</b>	<b>0.0423</b>		<b>342.6027</b>	<b>342.6027</b>	<b>0.0252</b>		<b>343.2329</b>

**3.19 230-kV Substation Control Enclosure Delivery and Install - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2636	2.8616	1.3758	4.3300e-003		0.1195	0.1195		0.1099	0.1099		419.1144	419.1144	0.1356		422.5032
<b>Total</b>	<b>0.2636</b>	<b>2.8616</b>	<b>1.3758</b>	<b>4.3300e-003</b>		<b>0.1195</b>	<b>0.1195</b>		<b>0.1099</b>	<b>0.1099</b>		<b>419.1144</b>	<b>419.1144</b>	<b>0.1356</b>		<b>422.5032</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.19 230-kV Substation Control Enclosure Delivery and Install - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.6500e-003	0.2213	0.0728	8.4000e-004	0.0241	5.2000e-004	0.0246	6.9200e-003	5.0000e-004	7.4200e-003		90.0149	90.0149	3.8200e-003		90.1103
Worker	0.0394	0.0280	0.2547	7.4000e-004	0.0913	5.5000e-004	0.0918	0.0242	5.1000e-004	0.0247		73.4333	73.4333	1.9700e-003		73.4826
<b>Total</b>	<b>0.0471</b>	<b>0.2492</b>	<b>0.3275</b>	<b>1.5800e-003</b>	<b>0.1154</b>	<b>1.0700e-003</b>	<b>0.1164</b>	<b>0.0311</b>	<b>1.0100e-003</b>	<b>0.0321</b>		<b>163.4482</b>	<b>163.4482</b>	<b>5.7900e-003</b>		<b>163.5929</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2636	2.8616	1.3758	4.3300e-003		0.1195	0.1195		0.1099	0.1099	0.0000	419.1144	419.1144	0.1356		422.5032
<b>Total</b>	<b>0.2636</b>	<b>2.8616</b>	<b>1.3758</b>	<b>4.3300e-003</b>		<b>0.1195</b>	<b>0.1195</b>		<b>0.1099</b>	<b>0.1099</b>	<b>0.0000</b>	<b>419.1144</b>	<b>419.1144</b>	<b>0.1356</b>		<b>422.5032</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.19 230-kV Substation Control Enclosure Delivery and Install - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.6500e-003	0.2213	0.0728	8.4000e-004	0.0241	5.2000e-004	0.0246	6.9200e-003	5.0000e-004	7.4200e-003		90.0149	90.0149	3.8200e-003		90.1103
Worker	0.0394	0.0280	0.2547	7.4000e-004	0.0913	5.5000e-004	0.0918	0.0242	5.1000e-004	0.0247		73.4333	73.4333	1.9700e-003		73.4826
<b>Total</b>	<b>0.0471</b>	<b>0.2492</b>	<b>0.3275</b>	<b>1.5800e-003</b>	<b>0.1154</b>	<b>1.0700e-003</b>	<b>0.1164</b>	<b>0.0311</b>	<b>1.0100e-003</b>	<b>0.0321</b>		<b>163.4482</b>	<b>163.4482</b>	<b>5.7900e-003</b>		<b>163.5929</b>

**3.20 230-kV Substation Remaining Equipment Delivery and Install - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3779	2.6759	2.4664	9.9200e-003		0.0968	0.0968		0.0890	0.0890		959.9164	959.9164	0.3105		967.6778
<b>Total</b>	<b>0.3779</b>	<b>2.6759</b>	<b>2.4664</b>	<b>9.9200e-003</b>		<b>0.0968</b>	<b>0.0968</b>		<b>0.0890</b>	<b>0.0890</b>		<b>959.9164</b>	<b>959.9164</b>	<b>0.3105</b>		<b>967.6778</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.20 230-kV Substation Remaining Equipment Delivery and Install - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0421	1.5890	0.5056	2.3200e-003	0.0354	1.3100e-003	0.0367	0.0103	1.2600e-003	0.0115		248.1591	248.1591	0.0216		248.6998
Worker	0.0296	0.0210	0.1910	5.5000e-004	0.0685	4.1000e-004	0.0689	0.0182	3.8000e-004	0.0185		55.0750	55.0750	1.4800e-003		55.1120
<b>Total</b>	<b>0.0717</b>	<b>1.6100</b>	<b>0.6966</b>	<b>2.8700e-003</b>	<b>0.1039</b>	<b>1.7200e-003</b>	<b>0.1056</b>	<b>0.0284</b>	<b>1.6400e-003</b>	<b>0.0301</b>		<b>303.2341</b>	<b>303.2341</b>	<b>0.0231</b>		<b>303.8118</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3779	2.6759	2.4664	9.9200e-003		0.0968	0.0968		0.0890	0.0890	0.0000	959.9164	959.9164	0.3105		967.6778
<b>Total</b>	<b>0.3779</b>	<b>2.6759</b>	<b>2.4664</b>	<b>9.9200e-003</b>		<b>0.0968</b>	<b>0.0968</b>		<b>0.0890</b>	<b>0.0890</b>	<b>0.0000</b>	<b>959.9164</b>	<b>959.9164</b>	<b>0.3105</b>		<b>967.6778</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.20 230-kV Substation Remaining Equipment Delivery and Install - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0421	1.5890	0.5056	2.3200e-003	0.0354	1.3100e-003	0.0367	0.0103	1.2600e-003	0.0115		248.1591	248.1591	0.0216		248.6998
Worker	0.0296	0.0210	0.1910	5.5000e-004	0.0685	4.1000e-004	0.0689	0.0182	3.8000e-004	0.0185		55.0750	55.0750	1.4800e-003		55.1120
<b>Total</b>	<b>0.0717</b>	<b>1.6100</b>	<b>0.6966</b>	<b>2.8700e-003</b>	<b>0.1039</b>	<b>1.7200e-003</b>	<b>0.1056</b>	<b>0.0284</b>	<b>1.6400e-003</b>	<b>0.0301</b>		<b>303.2341</b>	<b>303.2341</b>	<b>0.0231</b>		<b>303.8118</b>

**3.21 230-kV Transmission Conductor - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7984	15.7207	10.7044	0.0394		0.6165	0.6165		0.5672	0.5672		3,817.1203	3,817.1203	1.2345		3,847.9837
<b>Total</b>	<b>1.7984</b>	<b>15.7207</b>	<b>10.7044</b>	<b>0.0394</b>		<b>0.6165</b>	<b>0.6165</b>		<b>0.5672</b>	<b>0.5672</b>		<b>3,817.1203</b>	<b>3,817.1203</b>	<b>1.2345</b>		<b>3,847.9837</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.21 230-kV Transmission Conductor - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0421	1.2169	0.4004	4.6400e-003	0.1324	2.8600e-003	0.1352	0.0381	2.7400e-003	0.0408		495.0818	495.0818	0.0210		495.6067
Worker	0.1249	0.0886	0.8065	2.3300e-003	0.2891	1.7500e-003	0.2908	0.0767	1.6100e-003	0.0783		232.5389	232.5389	6.2500e-003		232.6950
<b>Total</b>	<b>0.1670</b>	<b>1.3055</b>	<b>1.2069</b>	<b>6.9700e-003</b>	<b>0.4214</b>	<b>4.6100e-003</b>	<b>0.4261</b>	<b>0.1148</b>	<b>4.3500e-003</b>	<b>0.1191</b>		<b>727.6207</b>	<b>727.6207</b>	<b>0.0272</b>		<b>728.3017</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7984	15.7207	10.7044	0.0394		0.6165	0.6165		0.5672	0.5672	0.0000	3,817.1203	3,817.1203	1.2345		3,847.9837
<b>Total</b>	<b>1.7984</b>	<b>15.7207</b>	<b>10.7044</b>	<b>0.0394</b>		<b>0.6165</b>	<b>0.6165</b>		<b>0.5672</b>	<b>0.5672</b>	<b>0.0000</b>	<b>3,817.1203</b>	<b>3,817.1203</b>	<b>1.2345</b>		<b>3,847.9837</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.21 230-kV Transmission Conductor - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0421	1.2169	0.4004	4.6400e-003	0.1324	2.8600e-003	0.1352	0.0381	2.7400e-003	0.0408		495.0818	495.0818	0.0210		495.6067
Worker	0.1249	0.0886	0.8065	2.3300e-003	0.2891	1.7500e-003	0.2908	0.0767	1.6100e-003	0.0783		232.5389	232.5389	6.2500e-003		232.6950
<b>Total</b>	<b>0.1670</b>	<b>1.3055</b>	<b>1.2069</b>	<b>6.9700e-003</b>	<b>0.4214</b>	<b>4.6100e-003</b>	<b>0.4261</b>	<b>0.1148</b>	<b>4.3500e-003</b>	<b>0.1191</b>		<b>727.6207</b>	<b>727.6207</b>	<b>0.0272</b>		<b>728.3017</b>

**3.22 70-kV Substation Equip Delivery & Installation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3679	2.8885	3.2533	0.0104		0.0945	0.0945		0.0870	0.0870		1,007.9647	1,007.9647	0.3260		1,016.1146
<b>Total</b>	<b>0.3679</b>	<b>2.8885</b>	<b>3.2533</b>	<b>0.0104</b>		<b>0.0945</b>	<b>0.0945</b>		<b>0.0870</b>	<b>0.0870</b>		<b>1,007.9647</b>	<b>1,007.9647</b>	<b>0.3260</b>		<b>1,016.1146</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.22 70-kV Substation Equip Delivery & Installation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0459	1.3275	0.4368	5.0600e-003	0.1444	3.1200e-003	0.1475	0.0415	2.9900e-003	0.0445		540.0893	540.0893	0.0229		540.6618
Worker	0.0434	0.0299	0.2790	7.6000e-004	0.0935	5.9000e-004	0.0941	0.0248	5.4000e-004	0.0254		75.9476	75.9476	2.1100e-003		76.0003
<b>Total</b>	<b>0.0893</b>	<b>1.3575</b>	<b>0.7157</b>	<b>5.8200e-003</b>	<b>0.2379</b>	<b>3.7100e-003</b>	<b>0.2416</b>	<b>0.0664</b>	<b>3.5300e-003</b>	<b>0.0699</b>		<b>616.0368</b>	<b>616.0368</b>	<b>0.0250</b>		<b>616.6621</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3679	2.8885	3.2533	0.0104		0.0945	0.0945		0.0870	0.0870	0.0000	1,007.9647	1,007.9647	0.3260		1,016.1146
<b>Total</b>	<b>0.3679</b>	<b>2.8885</b>	<b>3.2533</b>	<b>0.0104</b>		<b>0.0945</b>	<b>0.0945</b>		<b>0.0870</b>	<b>0.0870</b>	<b>0.0000</b>	<b>1,007.9647</b>	<b>1,007.9647</b>	<b>0.3260</b>		<b>1,016.1146</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.22 70-kV Substation Equip Delivery & Installation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0459	1.3275	0.4368	5.0600e-003	0.1444	3.1200e-003	0.1475	0.0415	2.9900e-003	0.0445		540.0893	540.0893	0.0229		540.6618
Worker	0.0434	0.0299	0.2790	7.6000e-004	0.0935	5.9000e-004	0.0941	0.0248	5.4000e-004	0.0254		75.9476	75.9476	2.1100e-003		76.0003
<b>Total</b>	<b>0.0893</b>	<b>1.3575</b>	<b>0.7157</b>	<b>5.8200e-003</b>	<b>0.2379</b>	<b>3.7100e-003</b>	<b>0.2416</b>	<b>0.0664</b>	<b>3.5300e-003</b>	<b>0.0699</b>		<b>616.0368</b>	<b>616.0368</b>	<b>0.0250</b>		<b>616.6621</b>

**3.23 70-kV Substation Control Enclosure Delivery and Install - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.23 70-kV Substation Control Enclosure Delivery and Install - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.6500e-003	0.2213	0.0728	8.4000e-004	0.0241	5.2000e-004	0.0246	6.9200e-003	5.0000e-004	7.4200e-003		90.0149	90.0149	3.8200e-003		90.1103
Worker	0.0372	0.0261	0.2396	6.8000e-004	0.0843	5.1000e-004	0.0848	0.0224	4.7000e-004	0.0228		67.9661	67.9661	1.8400e-003		68.0122
<b>Total</b>	<b>0.0448</b>	<b>0.2474</b>	<b>0.3124</b>	<b>1.5200e-003</b>	<b>0.1083</b>	<b>1.0300e-003</b>	<b>0.1094</b>	<b>0.0293</b>	<b>9.7000e-004</b>	<b>0.0303</b>		<b>157.9810</b>	<b>157.9810</b>	<b>5.6600e-003</b>		<b>158.1225</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.23 70-kV Substation Control Enclosure Delivery and Install - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.6500e-003	0.2213	0.0728	8.4000e-004	0.0241	5.2000e-004	0.0246	6.9200e-003	5.0000e-004	7.4200e-003		90.0149	90.0149	3.8200e-003		90.1103
Worker	0.0372	0.0261	0.2396	6.8000e-004	0.0843	5.1000e-004	0.0848	0.0224	4.7000e-004	0.0228		67.9661	67.9661	1.8400e-003		68.0122
<b>Total</b>	<b>0.0448</b>	<b>0.2474</b>	<b>0.3124</b>	<b>1.5200e-003</b>	<b>0.1083</b>	<b>1.0300e-003</b>	<b>0.1094</b>	<b>0.0293</b>	<b>9.7000e-004</b>	<b>0.0303</b>		<b>157.9810</b>	<b>157.9810</b>	<b>5.6600e-003</b>		<b>158.1225</b>

**3.24 230-kV Transmission Site Clean-up and Restoration - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4591	5.4209	2.8083	8.1800e-003		0.1887	0.1887		0.1736	0.1736		791.6434	791.6434	0.2560		798.0443
<b>Total</b>	<b>0.4591</b>	<b>5.4209</b>	<b>2.8083</b>	<b>8.1800e-003</b>		<b>0.1887</b>	<b>0.1887</b>		<b>0.1736</b>	<b>0.1736</b>		<b>791.6434</b>	<b>791.6434</b>	<b>0.2560</b>		<b>798.0443</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.24 230-kV Transmission Site Clean-up and Restoration - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0344	0.9957	0.3276	3.8000e-003	0.1083	2.3400e-003	0.1107	0.0312	2.2400e-003	0.0334		405.0669	405.0669	0.0172		405.4964
Worker	0.0460	0.0326	0.2971	8.6000e-004	0.1065	6.4000e-004	0.1071	0.0283	5.9000e-004	0.0288		85.6722	85.6722	2.3000e-003		85.7297
<b>Total</b>	<b>0.0804</b>	<b>1.0283</b>	<b>0.6247</b>	<b>4.6600e-003</b>	<b>0.2148</b>	<b>2.9800e-003</b>	<b>0.2178</b>	<b>0.0594</b>	<b>2.8300e-003</b>	<b>0.0622</b>		<b>490.7392</b>	<b>490.7392</b>	<b>0.0195</b>		<b>491.2261</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4591	5.4209	2.8083	8.1800e-003		0.1887	0.1887		0.1736	0.1736	0.0000	791.6434	791.6434	0.2560		798.0443
<b>Total</b>	<b>0.4591</b>	<b>5.4209</b>	<b>2.8083</b>	<b>8.1800e-003</b>		<b>0.1887</b>	<b>0.1887</b>		<b>0.1736</b>	<b>0.1736</b>	<b>0.0000</b>	<b>791.6434</b>	<b>791.6434</b>	<b>0.2560</b>		<b>798.0443</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.24 230-kV Transmission Site Clean-up and Restoration - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0344	0.9957	0.3276	3.8000e-003	0.1083	2.3400e-003	0.1107	0.0312	2.2400e-003	0.0334		405.0669	405.0669	0.0172		405.4964
Worker	0.0460	0.0326	0.2971	8.6000e-004	0.1065	6.4000e-004	0.1071	0.0283	5.9000e-004	0.0288		85.6722	85.6722	2.3000e-003		85.7297
<b>Total</b>	<b>0.0804</b>	<b>1.0283</b>	<b>0.6247</b>	<b>4.6600e-003</b>	<b>0.2148</b>	<b>2.9800e-003</b>	<b>0.2178</b>	<b>0.0594</b>	<b>2.8300e-003</b>	<b>0.0622</b>		<b>490.7392</b>	<b>490.7392</b>	<b>0.0195</b>		<b>491.2261</b>

**3.25 230-kV Substation Cable Installation and Termination - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0341	0.5248	1.0747	1.6500e-003		9.0700e-003	9.0700e-003		8.3400e-003	8.3400e-003		160.0386	160.0386	0.0518		161.3326
<b>Total</b>	<b>0.0341</b>	<b>0.5248</b>	<b>1.0747</b>	<b>1.6500e-003</b>		<b>9.0700e-003</b>	<b>9.0700e-003</b>		<b>8.3400e-003</b>	<b>8.3400e-003</b>		<b>160.0386</b>	<b>160.0386</b>	<b>0.0518</b>		<b>161.3326</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.25 230-kV Substation Cable Installation and Termination - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0115	0.3319	0.1092	1.2700e-003	0.0361	7.8000e-004	0.0369	0.0104	7.5000e-004	0.0111		135.0223	135.0223	5.7300e-003		135.1655
Worker	0.0329	0.0233	0.2122	6.1000e-004	0.0761	4.6000e-004	0.0765	0.0202	4.2000e-004	0.0206		61.1944	61.1944	1.6400e-003		61.2355
<b>Total</b>	<b>0.0443</b>	<b>0.3552</b>	<b>0.3214</b>	<b>1.8800e-003</b>	<b>0.1122</b>	<b>1.2400e-003</b>	<b>0.1134</b>	<b>0.0306</b>	<b>1.1700e-003</b>	<b>0.0317</b>		<b>196.2167</b>	<b>196.2167</b>	<b>7.3700e-003</b>		<b>196.4010</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0341	0.5248	1.0747	1.6500e-003		9.0700e-003	9.0700e-003		8.3400e-003	8.3400e-003	0.0000	160.0386	160.0386	0.0518		161.3326
<b>Total</b>	<b>0.0341</b>	<b>0.5248</b>	<b>1.0747</b>	<b>1.6500e-003</b>		<b>9.0700e-003</b>	<b>9.0700e-003</b>		<b>8.3400e-003</b>	<b>8.3400e-003</b>	<b>0.0000</b>	<b>160.0386</b>	<b>160.0386</b>	<b>0.0518</b>		<b>161.3326</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.25 230-kV Substation Cable Installation and Termination - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0115	0.3319	0.1092	1.2700e-003	0.0361	7.8000e-004	0.0369	0.0104	7.5000e-004	0.0111		135.0223	135.0223	5.7300e-003		135.1655
Worker	0.0329	0.0233	0.2122	6.1000e-004	0.0761	4.6000e-004	0.0765	0.0202	4.2000e-004	0.0206		61.1944	61.1944	1.6400e-003		61.2355
<b>Total</b>	<b>0.0443</b>	<b>0.3552</b>	<b>0.3214</b>	<b>1.8800e-003</b>	<b>0.1122</b>	<b>1.2400e-003</b>	<b>0.1134</b>	<b>0.0306</b>	<b>1.1700e-003</b>	<b>0.0317</b>		<b>196.2167</b>	<b>196.2167</b>	<b>7.3700e-003</b>		<b>196.4010</b>

**3.26 230-kV Substation Testing and Commissioning - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.26 230-kV Substation Testing and Commissioning - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0994	2.8763	0.9463	0.0110	0.3129	6.7700e-003	0.3197	0.0900	6.4700e-003	0.0965		1,170.1934	1,170.1934	0.0496		1,171.4339
Worker	0.0299	0.0203	0.1918	5.1000e-004	0.0620	4.0000e-004	0.0624	0.0165	3.7000e-004	0.0168		50.6414	50.6414	1.4300e-003		50.6772
<b>Total</b>	<b>0.1293</b>	<b>2.8967</b>	<b>1.1381</b>	<b>0.0115</b>	<b>0.3749</b>	<b>7.1700e-003</b>	<b>0.3821</b>	<b>0.1065</b>	<b>6.8400e-003</b>	<b>0.1133</b>		<b>1,220.8348</b>	<b>1,220.8348</b>	<b>0.0511</b>		<b>1,222.1111</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.26 230-kV Substation Testing and Commissioning - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0994	2.8763	0.9463	0.0110	0.3129	6.7700e-003	0.3197	0.0900	6.4700e-003	0.0965		1,170.1934	1,170.1934	0.0496		1,171.4339
Worker	0.0299	0.0203	0.1918	5.1000e-004	0.0620	4.0000e-004	0.0624	0.0165	3.7000e-004	0.0168		50.6414	50.6414	1.4300e-003		50.6772
<b>Total</b>	<b>0.1293</b>	<b>2.8967</b>	<b>1.1381</b>	<b>0.0115</b>	<b>0.3749</b>	<b>7.1700e-003</b>	<b>0.3821</b>	<b>0.1065</b>	<b>6.8400e-003</b>	<b>0.1133</b>		<b>1,220.8348</b>	<b>1,220.8348</b>	<b>0.0511</b>		<b>1,222.1111</b>

**3.27 70-kV Substation Cable Installation and Termination - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.27 70-kV Substation Cable Installation and Termination - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0115	0.3319	0.1092	1.2700e-003	0.0361	7.8000e-004	0.0369	0.0104	7.5000e-004	0.0111		135.0223	135.0223	5.7300e-003		135.1655
Worker	0.0297	0.0202	0.1904	5.0000e-004	0.0614	3.9000e-004	0.0618	0.0163	3.6000e-004	0.0167		50.1444	50.1444	1.4200e-003		50.1799
<b>Total</b>	<b>0.0412</b>	<b>0.3520</b>	<b>0.2996</b>	<b>1.7700e-003</b>	<b>0.0975</b>	<b>1.1700e-003</b>	<b>0.0987</b>	<b>0.0267</b>	<b>1.1100e-003</b>	<b>0.0278</b>		<b>185.1667</b>	<b>185.1667</b>	<b>7.1500e-003</b>		<b>185.3454</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.27 70-kV Substation Cable Installation and Termination - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0115	0.3319	0.1092	1.2700e-003	0.0361	7.8000e-004	0.0369	0.0104	7.5000e-004	0.0111		135.0223	135.0223	5.7300e-003		135.1655
Worker	0.0297	0.0202	0.1904	5.0000e-004	0.0614	3.9000e-004	0.0618	0.0163	3.6000e-004	0.0167		50.1444	50.1444	1.4200e-003		50.1799
<b>Total</b>	<b>0.0412</b>	<b>0.3520</b>	<b>0.2996</b>	<b>1.7700e-003</b>	<b>0.0975</b>	<b>1.1700e-003</b>	<b>0.0987</b>	<b>0.0267</b>	<b>1.1100e-003</b>	<b>0.0278</b>		<b>185.1667</b>	<b>185.1667</b>	<b>7.1500e-003</b>		<b>185.3454</b>

**3.28 70-kV Power Line Site Development Mobilization - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	0.6509	7.7474	3.6546	0.0115		0.2640	0.2640		0.2429	0.2429		1,112.0710	1,112.0710	0.3597		1,121.0627
<b>Total</b>	<b>0.6509</b>	<b>7.7474</b>	<b>3.6546</b>	<b>0.0115</b>	<b>1.5908</b>	<b>0.2640</b>	<b>1.8548</b>	<b>0.1718</b>	<b>0.2429</b>	<b>0.4147</b>		<b>1,112.0710</b>	<b>1,112.0710</b>	<b>0.3597</b>		<b>1,121.0627</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.28 70-kV Power Line Site Development Mobilization - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0382	1.1063	0.3640	4.2200e-003	0.1203	2.6000e-003	0.1229	0.0346	2.4900e-003	0.0371		450.0744	450.0744	0.0191		450.5515
Worker	0.0592	0.0414	0.3814	1.0700e-003	0.1321	8.1000e-004	0.1329	0.0350	7.5000e-004	0.0358		106.7683	106.7683	2.9200e-003		106.8412
<b>Total</b>	<b>0.0975</b>	<b>1.1477</b>	<b>0.7453</b>	<b>5.2900e-003</b>	<b>0.2524</b>	<b>3.4100e-003</b>	<b>0.2558</b>	<b>0.0697</b>	<b>3.2400e-003</b>	<b>0.0729</b>		<b>556.8426</b>	<b>556.8426</b>	<b>0.0220</b>		<b>557.3927</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6204	0.0000	0.6204	0.0670	0.0000	0.0670			0.0000			0.0000
Off-Road	0.6509	7.7474	3.6546	0.0115		0.2640	0.2640		0.2429	0.2429	0.0000	1,112.0710	1,112.0710	0.3597		1,121.0626
<b>Total</b>	<b>0.6509</b>	<b>7.7474</b>	<b>3.6546</b>	<b>0.0115</b>	<b>0.6204</b>	<b>0.2640</b>	<b>0.8844</b>	<b>0.0670</b>	<b>0.2429</b>	<b>0.3099</b>	<b>0.0000</b>	<b>1,112.0710</b>	<b>1,112.0710</b>	<b>0.3597</b>		<b>1,121.0626</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.28 70-kV Power Line Site Development Mobilization - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0382	1.1063	0.3640	4.2200e-003	0.1203	2.6000e-003	0.1229	0.0346	2.4900e-003	0.0371		450.0744	450.0744	0.0191		450.5515
Worker	0.0592	0.0414	0.3814	1.0700e-003	0.1321	8.1000e-004	0.1329	0.0350	7.5000e-004	0.0358		106.7683	106.7683	2.9200e-003		106.8412
<b>Total</b>	<b>0.0975</b>	<b>1.1477</b>	<b>0.7453</b>	<b>5.2900e-003</b>	<b>0.2524</b>	<b>3.4100e-003</b>	<b>0.2558</b>	<b>0.0697</b>	<b>3.2400e-003</b>	<b>0.0729</b>		<b>556.8426</b>	<b>556.8426</b>	<b>0.0220</b>		<b>557.3927</b>

**3.29 Reconductoring Segment Clean-up and Restoration - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3977	0.0000	0.3977	0.0429	0.0000	0.0429			0.0000			0.0000
Off-Road	0.3633	4.2576	2.3851	6.5200e-003		0.1510	0.1510		0.1389	0.1389		631.4296	631.4296	0.2042		636.5351
<b>Total</b>	<b>0.3633</b>	<b>4.2576</b>	<b>2.3851</b>	<b>6.5200e-003</b>	<b>0.3977</b>	<b>0.1510</b>	<b>0.5487</b>	<b>0.0429</b>	<b>0.1389</b>	<b>0.1818</b>		<b>631.4296</b>	<b>631.4296</b>	<b>0.2042</b>		<b>636.5351</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.29 Reconductoring Segment Clean-up and Restoration - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0191	0.5531	0.1820	2.1100e-003	0.0602	1.3000e-003	0.0615	0.0173	1.2500e-003	0.0186		225.0372	225.0372	9.5400e-003		225.2758
Worker	0.0457	0.0317	0.2938	8.2000e-004	0.1004	6.2000e-004	0.1011	0.0267	5.7000e-004	0.0272		81.3438	81.3438	2.2400e-003		81.3997
<b>Total</b>	<b>0.0648</b>	<b>0.5849</b>	<b>0.4758</b>	<b>2.9300e-003</b>	<b>0.1606</b>	<b>1.9200e-003</b>	<b>0.1625</b>	<b>0.0440</b>	<b>1.8200e-003</b>	<b>0.0458</b>		<b>306.3810</b>	<b>306.3810</b>	<b>0.0118</b>		<b>306.6755</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1551	0.0000	0.1551	0.0168	0.0000	0.0168			0.0000			0.0000
Off-Road	0.3633	4.2576	2.3851	6.5200e-003		0.1510	0.1510		0.1389	0.1389	0.0000	631.4296	631.4296	0.2042		636.5351
<b>Total</b>	<b>0.3633</b>	<b>4.2576</b>	<b>2.3851</b>	<b>6.5200e-003</b>	<b>0.1551</b>	<b>0.1510</b>	<b>0.3061</b>	<b>0.0168</b>	<b>0.1389</b>	<b>0.1556</b>	<b>0.0000</b>	<b>631.4296</b>	<b>631.4296</b>	<b>0.2042</b>		<b>636.5351</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.29 Reconductoring Segment Clean-up and Restoration - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0191	0.5531	0.1820	2.1100e-003	0.0602	1.3000e-003	0.0615	0.0173	1.2500e-003	0.0186		225.0372	225.0372	9.5400e-003		225.2758
Worker	0.0457	0.0317	0.2938	8.2000e-004	0.1004	6.2000e-004	0.1011	0.0267	5.7000e-004	0.0272		81.3438	81.3438	2.2400e-003		81.3997
<b>Total</b>	<b>0.0648</b>	<b>0.5849</b>	<b>0.4758</b>	<b>2.9300e-003</b>	<b>0.1606</b>	<b>1.9200e-003</b>	<b>0.1625</b>	<b>0.0440</b>	<b>1.8200e-003</b>	<b>0.0458</b>		<b>306.3810</b>	<b>306.3810</b>	<b>0.0118</b>		<b>306.6755</b>

**3.30 70-kV Power Line Pole Tower Installation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9144	14.9150	14.1297	0.0472		0.5804	0.5804		0.5340	0.5340		4,571.4399	4,571.4399	1.4785		4,608.4023
<b>Total</b>	<b>1.9144</b>	<b>14.9150</b>	<b>14.1297</b>	<b>0.0472</b>		<b>0.5804</b>	<b>0.5804</b>		<b>0.5340</b>	<b>0.5340</b>		<b>4,571.4399</b>	<b>4,571.4399</b>	<b>1.4785</b>		<b>4,608.4023</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.30 70-kV Power Line Pole Tower Installation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0573	1.6594	0.5460	6.3300e-003	0.1805	3.9100e-003	0.1844	0.0519	3.7400e-003	0.0557		675.1116	675.1116	0.0286		675.8273
Worker	0.1161	0.0805	0.7463	2.0700e-003	0.2543	1.5800e-003	0.2558	0.0675	1.4600e-003	0.0689		206.0175	206.0175	5.6800e-003		206.1594
<b>Total</b>	<b>0.1734</b>	<b>1.7399</b>	<b>1.2922</b>	<b>8.4000e-003</b>	<b>0.4348</b>	<b>5.4900e-003</b>	<b>0.4403</b>	<b>0.1194</b>	<b>5.2000e-003</b>	<b>0.1246</b>		<b>881.1290</b>	<b>881.1290</b>	<b>0.0343</b>		<b>881.9866</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9144	14.9150	14.1297	0.0472		0.5804	0.5804		0.5340	0.5340	0.0000	4,571.4399	4,571.4399	1.4785		4,608.4023
<b>Total</b>	<b>1.9144</b>	<b>14.9150</b>	<b>14.1297</b>	<b>0.0472</b>		<b>0.5804</b>	<b>0.5804</b>		<b>0.5340</b>	<b>0.5340</b>	<b>0.0000</b>	<b>4,571.4399</b>	<b>4,571.4399</b>	<b>1.4785</b>		<b>4,608.4023</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.30 70-kV Power Line Pole Tower Installation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0573	1.6594	0.5460	6.3300e-003	0.1805	3.9100e-003	0.1844	0.0519	3.7400e-003	0.0557		675.1116	675.1116	0.0286		675.8273
Worker	0.1161	0.0805	0.7463	2.0700e-003	0.2543	1.5800e-003	0.2558	0.0675	1.4600e-003	0.0689		206.0175	206.0175	5.6800e-003		206.1594
<b>Total</b>	<b>0.1734</b>	<b>1.7399</b>	<b>1.2922</b>	<b>8.4000e-003</b>	<b>0.4348</b>	<b>5.4900e-003</b>	<b>0.4403</b>	<b>0.1194</b>	<b>5.2000e-003</b>	<b>0.1246</b>		<b>881.1290</b>	<b>881.1290</b>	<b>0.0343</b>		<b>881.9866</b>

**3.31 70-kV Substation Install Yard Rock - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7203	5.9683	6.9052	0.0184		0.2341	0.2341		0.2154	0.2154		1,781.9512	1,781.9512	0.5763		1,796.3592
<b>Total</b>	<b>0.7203</b>	<b>5.9683</b>	<b>6.9052</b>	<b>0.0184</b>		<b>0.2341</b>	<b>0.2341</b>		<b>0.2154</b>	<b>0.2154</b>		<b>1,781.9512</b>	<b>1,781.9512</b>	<b>0.5763</b>		<b>1,796.3592</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.31 70-kV Substation Install Yard Rock - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0612	1.7700	0.5824	6.7500e-003	0.1925	4.1700e-003	0.1967	0.0554	3.9800e-003	0.0594		720.1190	720.1190	0.0305		720.8824
Worker	0.0394	0.0280	0.2547	7.4000e-004	0.0913	5.5000e-004	0.0918	0.0242	5.1000e-004	0.0247		73.4333	73.4333	1.9700e-003		73.4826
<b>Total</b>	<b>0.1006</b>	<b>1.7980</b>	<b>0.8370</b>	<b>7.4900e-003</b>	<b>0.2838</b>	<b>4.7200e-003</b>	<b>0.2886</b>	<b>0.0796</b>	<b>4.4900e-003</b>	<b>0.0841</b>		<b>793.5523</b>	<b>793.5523</b>	<b>0.0325</b>		<b>794.3650</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7203	5.9683	6.9052	0.0184		0.2341	0.2341		0.2154	0.2154	0.0000	1,781.9512	1,781.9512	0.5763		1,796.3592
<b>Total</b>	<b>0.7203</b>	<b>5.9683</b>	<b>6.9052</b>	<b>0.0184</b>		<b>0.2341</b>	<b>0.2341</b>		<b>0.2154</b>	<b>0.2154</b>	<b>0.0000</b>	<b>1,781.9512</b>	<b>1,781.9512</b>	<b>0.5763</b>		<b>1,796.3592</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.31 70-kV Substation Install Yard Rock - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0612	1.7700	0.5824	6.7500e-003	0.1925	4.1700e-003	0.1967	0.0554	3.9800e-003	0.0594		720.1190	720.1190	0.0305		720.8824
Worker	0.0394	0.0280	0.2547	7.4000e-004	0.0913	5.5000e-004	0.0918	0.0242	5.1000e-004	0.0247		73.4333	73.4333	1.9700e-003		73.4826
<b>Total</b>	<b>0.1006</b>	<b>1.7980</b>	<b>0.8370</b>	<b>7.4900e-003</b>	<b>0.2838</b>	<b>4.7200e-003</b>	<b>0.2886</b>	<b>0.0796</b>	<b>4.4900e-003</b>	<b>0.0841</b>		<b>793.5523</b>	<b>793.5523</b>	<b>0.0325</b>		<b>794.3650</b>

**3.32 230-kV Substation Cleanup and Restoration - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2353	2.3090	3.1169	4.2600e-003		0.1235	0.1235		0.1137	0.1137		412.1960	412.1960	0.1333		415.5288
<b>Total</b>	<b>0.2353</b>	<b>2.3090</b>	<b>3.1169</b>	<b>4.2600e-003</b>	<b>0.0000</b>	<b>0.1235</b>	<b>0.1235</b>	<b>0.0000</b>	<b>0.1137</b>	<b>0.1137</b>		<b>412.1960</b>	<b>412.1960</b>	<b>0.1333</b>		<b>415.5288</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.32 230-kV Substation Cleanup and Restoration - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1109	3.2082	1.0555	0.0122	0.3490	7.5500e-003	0.3565	0.1004	7.2200e-003	0.1076		1,305.2157	1,305.2157	0.0554		1,306.5994
Worker	0.0217	0.0150	0.1395	3.8000e-004	0.0468	2.9000e-004	0.0471	0.0124	2.7000e-004	0.0127		37.9738	37.9738	1.0500e-003		38.0001
<b>Total</b>	<b>0.1326</b>	<b>3.2232</b>	<b>1.1950</b>	<b>0.0126</b>	<b>0.3957</b>	<b>7.8400e-003</b>	<b>0.4036</b>	<b>0.1128</b>	<b>7.4900e-003</b>	<b>0.1203</b>		<b>1,343.1895</b>	<b>1,343.1895</b>	<b>0.0564</b>		<b>1,344.5995</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2353	2.3090	3.1169	4.2600e-003		0.1235	0.1235		0.1137	0.1137	0.0000	412.1960	412.1960	0.1333		415.5288
<b>Total</b>	<b>0.2353</b>	<b>2.3090</b>	<b>3.1169</b>	<b>4.2600e-003</b>	<b>0.0000</b>	<b>0.1235</b>	<b>0.1235</b>	<b>0.0000</b>	<b>0.1137</b>	<b>0.1137</b>	<b>0.0000</b>	<b>412.1960</b>	<b>412.1960</b>	<b>0.1333</b>		<b>415.5288</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.32 230-kV Substation Cleanup and Restoration - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1109	3.2082	1.0555	0.0122	0.3490	7.5500e-003	0.3565	0.1004	7.2200e-003	0.1076		1,305.2157	1,305.2157	0.0554		1,306.5994
Worker	0.0217	0.0150	0.1395	3.8000e-004	0.0468	2.9000e-004	0.0471	0.0124	2.7000e-004	0.0127		37.9738	37.9738	1.0500e-003		38.0001
<b>Total</b>	<b>0.1326</b>	<b>3.2232</b>	<b>1.1950</b>	<b>0.0126</b>	<b>0.3957</b>	<b>7.8400e-003</b>	<b>0.4036</b>	<b>0.1128</b>	<b>7.4900e-003</b>	<b>0.1203</b>		<b>1,343.1895</b>	<b>1,343.1895</b>	<b>0.0564</b>		<b>1,344.5995</b>

**3.33 70-kV Cleanup and Restoration - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.33 70-kV Cleanup and Restoration - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0283	0.0196	0.1819	5.0000e-004	0.0619	3.9000e-004	0.0623	0.0164	3.6000e-004	0.0168		50.1890	50.1890	1.3800e-003		50.2236
<b>Total</b>	<b>0.0283</b>	<b>0.0196</b>	<b>0.1819</b>	<b>5.0000e-004</b>	<b>0.0619</b>	<b>3.9000e-004</b>	<b>0.0623</b>	<b>0.0164</b>	<b>3.6000e-004</b>	<b>0.0168</b>		<b>50.1890</b>	<b>50.1890</b>	<b>1.3800e-003</b>		<b>50.2236</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.33 70-kV Cleanup and Restoration - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0283	0.0196	0.1819	5.0000e-004	0.0619	3.9000e-004	0.0623	0.0164	3.6000e-004	0.0168		50.1890	50.1890	1.3800e-003		50.2236
<b>Total</b>	<b>0.0283</b>	<b>0.0196</b>	<b>0.1819</b>	<b>5.0000e-004</b>	<b>0.0619</b>	<b>3.9000e-004</b>	<b>0.0623</b>	<b>0.0164</b>	<b>3.6000e-004</b>	<b>0.0168</b>		<b>50.1890</b>	<b>50.1890</b>	<b>1.3800e-003</b>		<b>50.2236</b>

**3.34 70-kV Substation Testing and Commissioning - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.34 70-kV Substation Testing and Commissioning - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.6500e-003	0.2213	0.0728	8.4000e-004	0.0241	5.2000e-004	0.0246	6.9200e-003	5.0000e-004	7.4200e-003		90.0149	90.0149	3.8200e-003		90.1103
Worker	0.0349	0.0243	0.2243	6.3000e-004	0.0772	4.8000e-004	0.0776	0.0205	4.4000e-004	0.0209		62.4279	62.4279	1.7100e-003		62.4707
<b>Total</b>	<b>0.0425</b>	<b>0.2455</b>	<b>0.2971</b>	<b>1.4700e-003</b>	<b>0.1012</b>	<b>1.0000e-003</b>	<b>0.1022</b>	<b>0.0274</b>	<b>9.4000e-004</b>	<b>0.0283</b>		<b>152.4428</b>	<b>152.4428</b>	<b>5.5300e-003</b>		<b>152.5810</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.34 70-kV Substation Testing and Commissioning - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.6500e-003	0.2213	0.0728	8.4000e-004	0.0241	5.2000e-004	0.0246	6.9200e-003	5.0000e-004	7.4200e-003		90.0149	90.0149	3.8200e-003		90.1103
Worker	0.0349	0.0243	0.2243	6.3000e-004	0.0772	4.8000e-004	0.0776	0.0205	4.4000e-004	0.0209		62.4279	62.4279	1.7100e-003		62.4707
<b>Total</b>	<b>0.0425</b>	<b>0.2455</b>	<b>0.2971</b>	<b>1.4700e-003</b>	<b>0.1012</b>	<b>1.0000e-003</b>	<b>0.1022</b>	<b>0.0274</b>	<b>9.4000e-004</b>	<b>0.0283</b>		<b>152.4428</b>	<b>152.4428</b>	<b>5.5300e-003</b>		<b>152.5810</b>

**3.35 70-kV Power Line Conductor Installation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4583	21.0710	16.4869	0.0538		0.8689	0.8689		0.7994	0.7994		5,204.5755	5,204.5755	1.6833		5,246.6571
<b>Total</b>	<b>2.4583</b>	<b>21.0710</b>	<b>16.4869</b>	<b>0.0538</b>		<b>0.8689</b>	<b>0.8689</b>		<b>0.7994</b>	<b>0.7994</b>		<b>5,204.5755</b>	<b>5,204.5755</b>	<b>1.6833</b>		<b>5,246.6571</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.35 70-kV Power Line Conductor Installation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0382	1.1063	0.3640	4.2200e-003	0.1203	2.6000e-003	0.1229	0.0346	2.4900e-003	0.0371		450.0744	450.0744	0.0191		450.5515
Worker	0.0938	0.0654	0.6039	1.6900e-003	0.2084	1.2900e-003	0.2097	0.0553	1.1900e-003	0.0565		168.5571	168.5571	4.6100e-003		168.6724
<b>Total</b>	<b>0.1320</b>	<b>1.1717</b>	<b>0.9679</b>	<b>5.9100e-003</b>	<b>0.3288</b>	<b>3.8900e-003</b>	<b>0.3326</b>	<b>0.0899</b>	<b>3.6800e-003</b>	<b>0.0936</b>		<b>618.6315</b>	<b>618.6315</b>	<b>0.0237</b>		<b>619.2240</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4583	21.0710	16.4869	0.0538		0.8689	0.8689		0.7994	0.7994	0.0000	5,204.5755	5,204.5755	1.6833		5,246.6571
<b>Total</b>	<b>2.4583</b>	<b>21.0710</b>	<b>16.4869</b>	<b>0.0538</b>		<b>0.8689</b>	<b>0.8689</b>		<b>0.7994</b>	<b>0.7994</b>	<b>0.0000</b>	<b>5,204.5755</b>	<b>5,204.5755</b>	<b>1.6833</b>		<b>5,246.6571</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.35 70-kV Power Line Conductor Installation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0382	1.1063	0.3640	4.2200e-003	0.1203	2.6000e-003	0.1229	0.0346	2.4900e-003	0.0371		450.0744	450.0744	0.0191		450.5515
Worker	0.0938	0.0654	0.6039	1.6900e-003	0.2084	1.2900e-003	0.2097	0.0553	1.1900e-003	0.0565		168.5571	168.5571	4.6100e-003		168.6724
<b>Total</b>	<b>0.1320</b>	<b>1.1717</b>	<b>0.9679</b>	<b>5.9100e-003</b>	<b>0.3288</b>	<b>3.8900e-003</b>	<b>0.3326</b>	<b>0.0899</b>	<b>3.6800e-003</b>	<b>0.0936</b>		<b>618.6315</b>	<b>618.6315</b>	<b>0.0237</b>		<b>619.2240</b>

**3.35 70-kV Power Line Conductor Installation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3759	19.5109	16.2391	0.0538		0.7922	0.7922		0.7288	0.7288		5,205.8190	5,205.8190	1.6837		5,247.9107
<b>Total</b>	<b>2.3759</b>	<b>19.5109</b>	<b>16.2391</b>	<b>0.0538</b>		<b>0.7922</b>	<b>0.7922</b>		<b>0.7288</b>	<b>0.7288</b>		<b>5,205.8190</b>	<b>5,205.8190</b>	<b>1.6837</b>		<b>5,247.9107</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.35 70-kV Power Line Conductor Installation - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0365	1.0691	0.3463	4.1900e-003	0.1204	2.4100e-003	0.1228	0.0346	2.3000e-003	0.0369		447.6140	447.6140	0.0193		448.0965
Worker	0.0884	0.0590	0.5556	1.6300e-003	0.2084	1.2600e-003	0.2097	0.0553	1.1600e-003	0.0565		162.0112	162.0112	4.1300e-003		162.1145
<b>Total</b>	<b>0.1249</b>	<b>1.1281</b>	<b>0.9020</b>	<b>5.8200e-003</b>	<b>0.3288</b>	<b>3.6700e-003</b>	<b>0.3324</b>	<b>0.0899</b>	<b>3.4600e-003</b>	<b>0.0934</b>		<b>609.6252</b>	<b>609.6252</b>	<b>0.0234</b>		<b>610.2111</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3759	19.5109	16.2391	0.0538		0.7922	0.7922		0.7288	0.7288	0.0000	5,205.8190	5,205.8190	1.6837		5,247.9107
<b>Total</b>	<b>2.3759</b>	<b>19.5109</b>	<b>16.2391</b>	<b>0.0538</b>		<b>0.7922</b>	<b>0.7922</b>		<b>0.7288</b>	<b>0.7288</b>	<b>0.0000</b>	<b>5,205.8190</b>	<b>5,205.8190</b>	<b>1.6837</b>		<b>5,247.9107</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.35 70-kV Power Line Conductor Installation - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0365	1.0691	0.3463	4.1900e-003	0.1204	2.4100e-003	0.1228	0.0346	2.3000e-003	0.0369		447.6140	447.6140	0.0193		448.0965
Worker	0.0884	0.0590	0.5556	1.6300e-003	0.2084	1.2600e-003	0.2097	0.0553	1.1600e-003	0.0565		162.0112	162.0112	4.1300e-003		162.1145
<b>Total</b>	<b>0.1249</b>	<b>1.1281</b>	<b>0.9020</b>	<b>5.8200e-003</b>	<b>0.3288</b>	<b>3.6700e-003</b>	<b>0.3324</b>	<b>0.0899</b>	<b>3.4600e-003</b>	<b>0.0934</b>		<b>609.6252</b>	<b>609.6252</b>	<b>0.0234</b>		<b>610.2111</b>

**3.36 70-kV Power Line Clean-up and Restoration - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3977	0.0000	0.3977	0.0429	0.0000	0.0429			0.0000			0.0000
Off-Road	0.3379	3.8409	2.3601	6.5200e-003		0.1343	0.1343		0.1236	0.1236		631.2640	631.2640	0.2042		636.3681
<b>Total</b>	<b>0.3379</b>	<b>3.8409</b>	<b>2.3601</b>	<b>6.5200e-003</b>	<b>0.3977</b>	<b>0.1343</b>	<b>0.5320</b>	<b>0.0429</b>	<b>0.1236</b>	<b>0.1665</b>		<b>631.2640</b>	<b>631.2640</b>	<b>0.2042</b>		<b>636.3681</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.36 70-kV Power Line Clean-up and Restoration - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0255	0.7484	0.2424	2.9300e-003	0.0843	1.6900e-003	0.0859	0.0242	1.6100e-003	0.0259		313.3298	313.3298	0.0135		313.6676
Worker	0.0465	0.0313	0.2928	8.7000e-004	0.1117	6.7000e-004	0.1124	0.0296	6.1000e-004	0.0303		86.6465	86.6465	2.1900e-003		86.7013
<b>Total</b>	<b>0.0721</b>	<b>0.7796</b>	<b>0.5352</b>	<b>3.8000e-003</b>	<b>0.1960</b>	<b>2.3600e-003</b>	<b>0.1984</b>	<b>0.0539</b>	<b>2.2200e-003</b>	<b>0.0561</b>		<b>399.9763</b>	<b>399.9763</b>	<b>0.0157</b>		<b>400.3689</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1551	0.0000	0.1551	0.0168	0.0000	0.0168			0.0000			0.0000
Off-Road	0.3379	3.8409	2.3601	6.5200e-003		0.1343	0.1343		0.1236	0.1236	0.0000	631.2640	631.2640	0.2042		636.3681
<b>Total</b>	<b>0.3379</b>	<b>3.8409</b>	<b>2.3601</b>	<b>6.5200e-003</b>	<b>0.1551</b>	<b>0.1343</b>	<b>0.2894</b>	<b>0.0168</b>	<b>0.1236</b>	<b>0.1403</b>	<b>0.0000</b>	<b>631.2640</b>	<b>631.2640</b>	<b>0.2042</b>		<b>636.3681</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**3.36 70-kV Power Line Clean-up and Restoration - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0255	0.7484	0.2424	2.9300e-003	0.0843	1.6900e-003	0.0859	0.0242	1.6100e-003	0.0259		313.3298	313.3298	0.0135		313.6676
Worker	0.0465	0.0313	0.2928	8.7000e-004	0.1117	6.7000e-004	0.1124	0.0296	6.1000e-004	0.0303		86.6465	86.6465	2.1900e-003		86.7013
<b>Total</b>	<b>0.0721</b>	<b>0.7796</b>	<b>0.5352</b>	<b>3.8000e-003</b>	<b>0.1960</b>	<b>2.3600e-003</b>	<b>0.1984</b>	<b>0.0539</b>	<b>2.2200e-003</b>	<b>0.0561</b>		<b>399.9763</b>	<b>399.9763</b>	<b>0.0157</b>		<b>400.3689</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	13.00	5.00	5.00	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.588806	0.027737	0.198305	0.114471	0.022249	0.005748	0.012759	0.019721	0.002316	0.001163	0.004776	0.000758	0.001192

5.0 Energy Detail

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.2200e-003	0.0384	0.0322	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.0532	46.0532	8.8000e-004	8.4000e-004	46.3269
NaturalGas Unmitigated	4.2200e-003	0.0384	0.0322	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.0532	46.0532	8.8000e-004	8.4000e-004	46.3269

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	391.452	4.2200e-003	0.0384	0.0322	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.0532	46.0532	8.8000e-004	8.4000e-004	46.3269
<b>Total</b>		<b>4.2200e-003</b>	<b>0.0384</b>	<b>0.0322</b>	<b>2.3000e-004</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>		<b>46.0532</b>	<b>46.0532</b>	<b>8.8000e-004</b>	<b>8.4000e-004</b>	<b>46.3269</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.391452	4.2200e-003	0.0384	0.0322	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.0532	46.0532	8.8000e-004	8.4000e-004	46.3269
<b>Total</b>		<b>4.2200e-003</b>	<b>0.0384</b>	<b>0.0322</b>	<b>2.3000e-004</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>		<b>46.0532</b>	<b>46.0532</b>	<b>8.8000e-004</b>	<b>8.4000e-004</b>	<b>46.3269</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	152.9488	6.6100e-003	0.7282	5.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003		1.5635	1.5635	4.0800e-003		1.6655
Unmitigated	152.9488	6.6100e-003	0.7282	5.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003		1.5635	1.5635	4.0800e-003		1.6655

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	152.8816					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0672	6.6100e-003	0.7282	5.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003		1.5635	1.5635	4.0800e-003		1.6655
<b>Total</b>	<b>152.9488</b>	<b>6.6100e-003</b>	<b>0.7282</b>	<b>5.0000e-005</b>		<b>2.5900e-003</b>	<b>2.5900e-003</b>		<b>2.5900e-003</b>	<b>2.5900e-003</b>		<b>1.5635</b>	<b>1.5635</b>	<b>4.0800e-003</b>		<b>1.6655</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	152.8816					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0672	6.6100e-003	0.7282	5.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003		1.5635	1.5635	4.0800e-003		1.6655
<b>Total</b>	<b>152.9488</b>	<b>6.6100e-003</b>	<b>0.7282</b>	<b>5.0000e-005</b>		<b>2.5900e-003</b>	<b>2.5900e-003</b>		<b>2.5900e-003</b>	<b>2.5900e-003</b>		<b>1.5635</b>	<b>1.5635</b>	<b>4.0800e-003</b>		<b>1.6655</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Trucks	1	4.00	13	402	0.38	Diesel
Off-Highway Trucks	1	4.00	12	402	0.38	Diesel
Other General Industrial Equipment	1	8.00	2	400	0.34	Diesel

**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Off-Highway Trucks	0.4970	3.3279	3.2502	0.0132		0.1198	0.1198		0.1102	0.1102		1,280.3504	1,280.3504	0.4141		1,290.7027
Other General Industrial Equipment	0.3779	2.7653	2.6630	0.0117		0.0948	0.0948		0.0872	0.0872		1,134.3814	1,134.3814	0.3669		1,143.5535
<b>Total</b>	<b>0.8750</b>	<b>6.0932</b>	<b>5.9132</b>	<b>0.0250</b>		<b>0.2146</b>	<b>0.2146</b>		<b>0.1974</b>	<b>0.1974</b>		<b>2,414.7318</b>	<b>2,414.7318</b>	<b>0.7810</b>		<b>2,434.2562</b>

**10.0 Stationary Equipment**

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Winter

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**Estrella Substation and Paso Robles Area Reinforcement Project**  
**San Luis Obispo County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	7,144.00	1000sqft	164.00	7,144,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2024
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - The total area in power line the easement widths, substation temp disturbance, areas for temporary staging and access roads outside of the easement equals approximately 164 acres or a 7,144,000 square feet area

Construction Phase - Based on project schedule and description

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

Off-road Equipment - Based on construction schedule  
Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on equipment roster for the project.

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

Off-road Equipment - Based on construction schedule

Off-road Equipment - Based on construction schedule

Trips and VMT - Based on equipment roster and schedule provided

On-road Fugitive Dust - Per the user guide 9.3% silt content should be used for the San Luis Obispo region

Grading - Based on grading and material movement for the project.

Vehicle Trips - Unmanned operation

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - No consumer product utilization was assumed for the project

Area Coating - No architectural coating is assumed for the project

Energy Use - Energy intensity factors scaled down to match the area occupied by the 230kV Substation Control Enclosure approximately 14 feet wide, 48 feet long, and the 70 kV Substation Control Enclosure approximately 16 feet wide and 64 feet long.

Water And Wastewater - Unmanned facility - No water use is expected

Solid Waste - No solid waste generation is expected

Construction Off-road Equipment Mitigation - At a minimum, the off-road equipment fleet shall meet the CARB off-road emissions average for that calendar year and ensure that quarterly DPM emissions are less than the SLOCAPCD significance thresholds.

Operational Off-Road Equipment - Assumes monthly inspections and an annual maintenance on the substation components. Helicopter emissions are represented as Other general industrial equipment with hp increased to 400

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	3572000	0
tblAreaCoating	Area_Nonresidential_Interior	10716000	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	50.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	19.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstructionPhase	NumDays	3,100.00	48.00
tblConstructionPhase	NumDays	3,100.00	48.00
tblConstructionPhase	NumDays	3,100.00	24.00
tblConstructionPhase	NumDays	3,100.00	24.00
tblConstructionPhase	NumDays	3,100.00	18.00
tblConstructionPhase	NumDays	3,100.00	24.00
tblConstructionPhase	NumDays	3,100.00	30.00
tblConstructionPhase	NumDays	3,100.00	12.00
tblConstructionPhase	NumDays	3,100.00	24.00
tblConstructionPhase	NumDays	3,100.00	48.00
tblConstructionPhase	NumDays	3,100.00	6.00
tblConstructionPhase	NumDays	3,100.00	18.00
tblConstructionPhase	NumDays	3,100.00	6.00
tblConstructionPhase	NumDays	3,100.00	6.00
tblConstructionPhase	NumDays	3,100.00	12.00





Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	LightingElect	3.08	0.01
tblEnergyUse	NT24E	3.70	0.01
tblEnergyUse	NT24NG	6.67	0.01
tblEnergyUse	T24E	1.48	0.01
tblEnergyUse	T24NG	19.71	0.01
tblGrading	AcresOfGrading	36.00	27.00
tblGrading	AcresOfGrading	4.50	9.00
tblGrading	AcresOfGrading	9.00	18.00
tblGrading	AcresOfGrading	4.50	9.00
tblGrading	MaterialExported	0.00	828.00
tblGrading	MaterialImported	0.00	3,140.00
tblOffRoadEquipment	HorsePower	63.00	62.00
tblOffRoadEquipment	HorsePower	63.00	62.00
tblOffRoadEquipment	HorsePower	63.00	62.00
tblOffRoadEquipment	HorsePower	63.00	62.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00





Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		230-kV Substation Steel Bus Erection
tblOffRoadEquipment	PhaseName		70-kV Substation Steel Bus Erection
tblOffRoadEquipment	PhaseName		70-kV Substation Equip Delivery & Installation
tblOffRoadEquipment	PhaseName		230-kV Substation Cable Installation and Termination
tblOffRoadEquipment	PhaseName		70-kV Substation Foundation Construction
tblOffRoadEquipment	PhaseName		230-kV Transmission Foundation Tower Installation Remove two towers
tblOffRoadEquipment	PhaseName		Reconductoring Segment Pole Installation Transfer Distribution Pole Removal
tblOffRoadEquipment	PhaseName		230-kV Substation Foundation Construction
tblOffRoadEquipment	PhaseName		70-kV Substation Mobilization
tblOffRoadEquipment	PhaseName		230-kV Transmission Site Clean-up and Restoration
tblOffRoadEquipment	PhaseName		70-kV Power Line Site Development Mobilization

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

tblOffRoadEquipment	PhaseName	Reconductoring Segment Clean-up and Restoration
tblOffRoadEquipment	PhaseName	Reconductoring Segment Site Development Mobilization
tblOffRoadEquipment	PhaseName	70-kV Power Line Clean-up and Restoration
tblOffRoadEquipment	PhaseName	230-kV Substation Steel Bus Erection
tblOffRoadEquipment	PhaseName	230-kV Substation Install Yard Rock
tblOffRoadEquipment	PhaseName	70-kV Substation Steel Bus Erection
tblOffRoadEquipment	PhaseName	230-kV Substation Transformer & Equip Delivery & Installation
tblOffRoadEquipment	PhaseName	230-kV Substation Transformer & Equip Delivery & Installation
tblOffRoadEquipment	PhaseName	230-kV Substation Remaining Equipment Delivery and Install
tblOffRoadEquipment	PhaseName	230-kV Transmission Foundation Tower Installation Remove two towers
tblOffRoadEquipment	PhaseName	230-kV Transmission Foundation Tower Installation Remove two towers
tblOffRoadEquipment	PhaseName	230-kV Transmission Foundation Tower Installation Remove two towers
tblOffRoadEquipment	PhaseName	230-kV Transmission Conductor
tblOffRoadEquipment	PhaseName	230-kV Transmission Conductor
tblOffRoadEquipment	PhaseName	70-kV Substation Equip Delivery & Installation
tblOffRoadEquipment	PhaseName	70-kV Substation Control Enclosure Delivery and Install
tblOffRoadEquipment	PhaseName	230-kV Substation Testing and Commissioning
tblOffRoadEquipment	PhaseName	70-kV Substation Cable Installation and Termination
tblOffRoadEquipment	PhaseName	70-kV Power Line Pole Tower Installation
tblOffRoadEquipment	PhaseName	70-kV Power Line Pole Tower Installation
tblOffRoadEquipment	PhaseName	70-kV Substation Install Yard Rock
tblOffRoadEquipment	PhaseName	70-kV Cleanup and Restoration
tblOffRoadEquipment	PhaseName	70-kV Substation Testing and Commissioning

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

tblOffRoadEquipment	PhaseName	70-kV Power Line Conductor Installation
tblOffRoadEquipment	PhaseName	70-kV Power Line Conductor Installation
tblOffRoadEquipment	PhaseName	70-kV Power Line Conductor Installation
tblOffRoadEquipment	PhaseName	Reconductoring Segment Pole Installation Transfer Distribution Pole Removal
tblOffRoadEquipment	PhaseName	Reconductoring Segment Pole Installation Transfer Distribution Pole Removal
tblOffRoadEquipment	PhaseName	230-kV Substation Access Roads
tblOffRoadEquipment	PhaseName	230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization
tblOffRoadEquipment	PhaseName	230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization
tblOffRoadEquipment	PhaseName	Reconductoring Segment Conductor Installation
tblOffRoadEquipment	PhaseName	Reconductoring Segment Conductor Installation
tblOffRoadEquipment	PhaseName	Reconductoring Segment Conductor Installation
tblOffRoadEquipment	PhaseName	Reconductoring Segment Conductor Installation
tblOffRoadEquipment	PhaseName	230-kV Substation Cleanup and Restoration
tblOffRoadEquipment	PhaseName	70-kV Power Line Conductor Installation
tblOffRoadEquipment	PhaseName	70-kV Power Line Conductor Installation
tblOffRoadEquipment	PhaseName	Reconductoring Segment Conductor Installation
tblOffRoadEquipment	PhaseName	Reconductoring Segment Conductor Installation
tblOffRoadEquipment	PhaseName	230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization
tblOffRoadEquipment	PhaseName	230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization
tblOffRoadEquipment	PhaseName	230-kV Substation Install Yard Rock
tblOffRoadEquipment	PhaseName	70-kV Substation Install Yard Rock

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

tblOffRoadEquipment	PhaseName		230-kV Substation Fence and Gate Installation
tblOffRoadEquipment	PhaseName		70-kV Substation Foundation Construction
tblOffRoadEquipment	PhaseName		70-kV Substation Ground Grid Conduit Installation
tblOffRoadEquipment	PhaseName		230-kV Substation Ground Grid Conduit Installation
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	5.30
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	7.00	5.00
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	0.50
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	5.00
tblOffRoadEquipment	UsageHours	8.00	6.00











Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOnRoadDust	MeanVehicleSpeed	40.00	32.40
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	13.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	12.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	2.00
tblOperationalOffRoadEquipment	OperHorsePower	88.00	400.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblSolidWaste	SolidWasteGenerationRate	8,858.56	0.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	0.91
tblTripsAndVMT	VendorTripLength	5.00	1.20
tblTripsAndVMT	VendorTripLength	5.00	8.68
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	1.15
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	1.34
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	1.90
tblTripsAndVMT	VendorTripLength	5.00	1.20
tblTripsAndVMT	VendorTripLength	5.00	1.85
tblTripsAndVMT	VendorTripLength	5.00	13.00
tblTripsAndVMT	VendorTripLength	5.00	1.85
tblTripsAndVMT	VendorTripNumber	0.00	11.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	1,171.00	13.00
tblTripsAndVMT	VendorTripNumber	1,171.00	9.00
tblTripsAndVMT	VendorTripNumber	1,171.00	29.00
tblTripsAndVMT	VendorTripNumber	1,171.00	30.00

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

tblTripsAndVMT	VendorTripNumber	1,171.00	45.00
tblTripsAndVMT	VendorTripNumber	1,171.00	9.00
tblTripsAndVMT	VendorTripNumber	1,171.00	30.00
tblTripsAndVMT	VendorTripNumber	1,171.00	2.00
tblTripsAndVMT	VendorTripNumber	1,171.00	28.00
tblTripsAndVMT	VendorTripNumber	1,171.00	12.00
tblTripsAndVMT	VendorTripNumber	1,171.00	11.00
tblTripsAndVMT	VendorTripNumber	1,171.00	12.00
tblTripsAndVMT	VendorTripNumber	1,171.00	2.00
tblTripsAndVMT	VendorTripNumber	1,171.00	9.00
tblTripsAndVMT	VendorTripNumber	1,171.00	3.00
tblTripsAndVMT	VendorTripNumber	1,171.00	26.00
tblTripsAndVMT	VendorTripNumber	1,171.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	VendorTripNumber	1,171.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	1,171.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	29.00
tblTripsAndVMT	VendorTripNumber	1,171.00	2.00
tblTripsAndVMT	VendorTripNumber	1,171.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	7.00
tblTripsAndVMT	VendorTripNumber	1,171.00	13.00
tblTripsAndVMT	VendorTripNumber	0.00	33.00
tblTripsAndVMT	VendorTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripNumber	1,171.00	30.00
tblTripsAndVMT	VendorTripNumber	1,171.00	10.00

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

tblTripsAndVMT	VendorTripNumber	1,171.00	31.00
tblTripsAndVMT	WorkerTripLength	13.00	10.00
tblTripsAndVMT	WorkerTripLength	13.00	7.68
tblTripsAndVMT	WorkerTripLength	13.00	8.45
tblTripsAndVMT	WorkerTripLength	13.00	8.45
tblTripsAndVMT	WorkerTripLength	13.00	9.15
tblTripsAndVMT	WorkerTripLength	13.00	9.56
tblTripsAndVMT	WorkerTripLength	13.00	8.97
tblTripsAndVMT	WorkerTripLength	13.00	7.34
tblTripsAndVMT	WorkerTripLength	13.00	8.52
tblTripsAndVMT	WorkerTripLength	13.00	10.00
tblTripsAndVMT	WorkerTripLength	13.00	10.00
tblTripsAndVMT	WorkerTripLength	13.00	10.00
tblTripsAndVMT	WorkerTripLength	13.00	10.00
tblTripsAndVMT	WorkerTripLength	13.00	7.68
tblTripsAndVMT	WorkerTripLength	13.00	9.23
tblTripsAndVMT	WorkerTripLength	13.00	10.00
tblTripsAndVMT	WorkerTripLength	13.00	10.00
tblTripsAndVMT	WorkerTripLength	13.00	6.79
tblTripsAndVMT	WorkerTripLength	13.00	6.72
tblTripsAndVMT	WorkerTripLength	13.00	8.68
tblTripsAndVMT	WorkerTripLength	13.00	8.25
tblTripsAndVMT	WorkerTripLength	13.00	8.15
tblTripsAndVMT	WorkerTripLength	13.00	7.67
tblTripsAndVMT	WorkerTripLength	13.00	10.00
tblTripsAndVMT	WorkerTripLength	13.00	7.68
tblTripsAndVMT	WorkerTripLength	13.00	8.14

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

tblTripsAndVMT	WorkerTripLength	13.00	8.45
tblTripsAndVMT	WorkerTripLength	13.00	8.56
tblTripsAndVMT	WorkerTripLength	13.00	9.18
tblTripsAndVMT	WorkerTripLength	13.00	6.32
tblTripsAndVMT	WorkerTripLength	13.00	8.45
tblTripsAndVMT	WorkerTripLength	13.00	7.85
tblTripsAndVMT	WorkerTripLength	13.00	5.87
tblTripsAndVMT	WorkerTripLength	13.00	7.50
tblTripsAndVMT	WorkerTripLength	13.00	8.38
tblTripsAndVMT	WorkerTripNumber	5.00	22.00
tblTripsAndVMT	WorkerTripNumber	5.00	16.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	22.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	18.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	14.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	18.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	9.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	30.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	38.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	16.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	14.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	10.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00

## Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	20.00
tblTripsAndVMT	WorkerTripNumber	5.00	16.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	41.00
tblTripsAndVMT	WorkerTripNumber	5.00	18.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	12.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	32.00
tblTripsAndVMT	WorkerTripNumber	5.00	16.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	38.00
tblTripsAndVMT	WorkerTripNumber	10.00	24.00
tblTripsAndVMT	WorkerTripNumber	30.00	26.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	18.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	28.00
tblTripsAndVMT	WorkerTripNumber	3,000.00	22.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	1,652,050,000.00	0.00

## 2.0 Emissions Summary

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Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	11.8422	110.4933	77.2514	0.2800	8.4664	3.9120	12.3784	3.7790	3.6004	7.3794	0.0000	27,421.4854	27,421.4854	7.9074	0.0000	27,619.1696
2023	9.7336	81.3116	67.7871	0.2547	3.9882	2.8194	5.3724	0.7733	2.6007	3.0068	0.0000	24,904.6116	24,904.6116	7.0316	0.0000	25,080.4017
2024	2.4896	20.6289	17.1270	0.0597	0.5937	0.7958	1.1246	0.0968	0.7322	0.8221	0.0000	5,829.9182	5,829.9182	1.7066	0.0000	5,872.5819
<b>Maximum</b>	<b>11.8422</b>	<b>110.4933</b>	<b>77.2514</b>	<b>0.2800</b>	<b>8.4664</b>	<b>3.9120</b>	<b>12.3784</b>	<b>3.7790</b>	<b>3.6004</b>	<b>7.3794</b>	<b>0.0000</b>	<b>27,421.4854</b>	<b>27,421.4854</b>	<b>7.9074</b>	<b>0.0000</b>	<b>27,619.1696</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	11.8422	110.4933	77.2514	0.2800	4.0505	3.9120	7.9625	1.6790	3.6004	5.2794	0.0000	27,421.4854	27,421.4854	7.9074	0.0000	27,619.1696
2023	9.7336	81.3116	67.7871	0.2547	2.7752	2.8194	4.3000	0.6423	2.6007	3.0068	0.0000	24,904.6116	24,904.6116	7.0316	0.0000	25,080.4017
2024	2.4896	20.6289	17.1270	0.0597	0.3511	0.7958	1.1246	0.0899	0.7322	0.8221	0.0000	5,829.9182	5,829.9182	1.7066	0.0000	5,872.5818
<b>Maximum</b>	<b>11.8422</b>	<b>110.4933</b>	<b>77.2514</b>	<b>0.2800</b>	<b>4.0505</b>	<b>3.9120</b>	<b>7.9625</b>	<b>1.6790</b>	<b>3.6004</b>	<b>5.2794</b>	<b>0.0000</b>	<b>27,421.4854</b>	<b>27,421.4854</b>	<b>7.9074</b>	<b>0.0000</b>	<b>27,619.1696</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	45.00	0.00	29.08	48.14	0.00	18.74	0.00	0.00	0.00	0.00	0.00	0.00

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	152.9488	6.6100e-003	0.7282	5.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003		1.5635	1.5635	4.0800e-003		1.6655
Energy	4.2200e-003	0.0384	0.0322	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.0532	46.0532	8.8000e-004	8.4000e-004	46.3269
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.8750	6.0932	5.9132	0.0250		0.2146	0.2146		0.1974	0.1974		2,414.7318	2,414.7318	0.7810		2,434.2562
<b>Total</b>	<b>153.8280</b>	<b>6.1382</b>	<b>6.6737</b>	<b>0.0252</b>	<b>0.0000</b>	<b>0.2201</b>	<b>0.2201</b>	<b>0.0000</b>	<b>0.2029</b>	<b>0.2029</b>		<b>2,462.3485</b>	<b>2,462.3485</b>	<b>0.7859</b>	<b>8.4000e-004</b>	<b>2,482.2486</b>



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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	152.9488	6.6100e-003	0.7282	5.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003		1.5635	1.5635	4.0800e-003		1.6655
Energy	4.2200e-003	0.0384	0.0322	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.0532	46.0532	8.8000e-004	8.4000e-004	46.3269
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	0.8750	6.0932	5.9132	0.0250		0.2146	0.2146		0.1974	0.1974		2,414.7318	2,414.7318	0.7810		2,434.2562
<b>Total</b>	<b>153.8280</b>	<b>6.1382</b>	<b>6.6737</b>	<b>0.0252</b>	<b>0.0000</b>	<b>0.2201</b>	<b>0.2201</b>	<b>0.0000</b>	<b>0.2029</b>	<b>0.2029</b>		<b>2,462.3485</b>	<b>2,462.3485</b>	<b>0.7859</b>	<b>8.4000e-004</b>	<b>2,482.2486</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	230-kV Transmission Site Work Area Preparation Mobilization	Site Preparation	6/1/2022	6/14/2022	6	12	
2	230-kV Transmission Foundation Tower Installation Remove two towers	Building Construction	6/15/2022	8/9/2022	6	48	
3	Reconductoring Segment Site Development Mobilization	Site Preparation	8/1/2022	8/13/2022	6	12	

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4	Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Building Construction	8/15/2022	2/18/2023	6	144
5	230-kV Substation Access Roads	Site Preparation	9/1/2022	9/14/2022	6	12
6	230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Grading	9/15/2022	10/12/2022	6	24
7	230-kV Substation Fence and Gate Installation	Building Construction	10/8/2022	10/21/2022	6	12
8	Reconductoring Segment Conductor Installation	Building Construction	10/10/2022	2/28/2023	6	120
9	230-kV Substation Foundation Construction	Building Construction	10/15/2022	11/25/2022	6	36
10	70-kV Substation Mobilization	Site Preparation	10/18/2022	10/30/2022	6	12
11	70-kV Substation Foundation Construction	Building Construction	11/1/2022	12/31/2022	6	48
12	70-kV Substation Ground Grid Conduit Installation	Building Construction	11/1/2022	12/31/2022	6	48
13	230-kV Substation Ground Grid Conduit Installation	Building Construction	11/15/2022	12/12/2022	6	24
14	230-kV Substation Steel Bus Erection	Building Construction	12/9/2022	1/5/2023	6	24
15	230-kV Substation Install Yard Rock	Building Construction	12/23/2022	1/12/2023	6	18
16	70-kV Substation Steel Bus Erection	Building Construction	1/1/2023	1/31/2023	6	24
17	230-kV Substation Transformer & Equip Delivery & Installation	Building Construction	1/2/2023	2/4/2023	6	30
18	230-kV Substation Control Enclosure Delivery and Install	Building Construction	1/6/2023	1/19/2023	6	12
19	230-kV Substation Remaining Equipment Delivery and Install	Building Construction	1/13/2023	2/11/2023	6	24
20	230-kV Transmission Conductor	Building Construction	1/25/2023	1/31/2023	6	6
21	70-kV Substation Equip Delivery & Installation	Building Construction	2/1/2023	2/21/2023	6	18
22	70-kV Substation Control Enclosure Delivery and Install	Building Construction	2/1/2023	2/7/2023	6	6
23	230-kV Transmission Site Clean-up and Restoration	Building Construction	2/1/2023	2/7/2023	6	6
24	230-kV Substation Cable Installation and Termination	Building Construction	2/1/2023	2/14/2023	6	12

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25	230-kV Substation Testing and Commissioning	Building Construction	2/11/2023	3/17/2023	6	30
26	70-kV Substation Cable Installation and Termination	Building Construction	2/22/2023	3/14/2023	6	18
27	70-kV Power Line Site Development Mobilization	Site Preparation	3/1/2023	3/14/2023	6	12
28	Reconductoring Segment Clean-up and Restoration	Site Preparation	3/1/2023	3/14/2023	6	12
29	70-kV Power Line Pole Tower Installation	Building Construction	3/1/2023	11/30/2023	6	216
30	70-kV Substation Install Yard Rock	Building Construction	3/1/2023	3/14/2023	6	12
31	230-kV Substation Cleanup and Restoration	Site Preparation	3/11/2023	3/31/2023	6	18
32	70-kV Cleanup and Restoration	Site Preparation	3/15/2023	3/28/2023	6	12
33	70-kV Substation Testing and Commissioning	Building Construction	4/1/2023	5/31/2023	6	48
34	70-kV Power Line Conductor Installation	Building Construction	11/1/2023	1/31/2024	6	72
35	70-kV Power Line Clean-up and Restoration	Site Preparation	2/1/2024	2/14/2024	6	12

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
230-kV Transmission Site Work Area Preparation Mobilization	Graders	1	6.00	187	0.41
230-kV Transmission Site Work Area Preparation Mobilization	Tractors/Loaders/Backhoes	1	6.00	97	0.37
230-kV Transmission Foundation Tower Installation Remove two towers	Bore/Drill Rigs	1	1.00	221	0.50
230-kV Transmission Foundation Tower Installation Remove two towers	Cranes	3	5.30	231	0.29

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230-kV Transmission Foundation Tower Installation Remove two towers	Forklifts	3	2.60	89	0.20
230-kV Transmission Foundation Tower Installation Remove two towers	Off-Highway Trucks	2	3.50	402	0.38
230-kV Transmission Foundation Tower Installation Remove two towers	Off-Highway Trucks	1	0.80	402	0.38
230-kV Transmission Foundation Tower Installation Remove two towers	Off-Highway Trucks	2	2.60	402	0.38
230-kV Transmission Foundation Tower Installation Remove two towers	Tractors/Loaders/Backhoes	1	0.50	97	0.37
Reconductoring Segment Site Development Mobilization	Graders	1	6.00	187	0.41
Reconductoring Segment Site Development Mobilization	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Bore/Drill Rigs	1	6.00	221	0.50
Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Cranes	3	6.00	231	0.29
Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Cranes	1	1.00	231	0.29
Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Off-Highway Trucks	2	3.00	402	0.38
Reconductoring Segment Pole Installation Transfer Distribution Pole Removal	Off-Highway Trucks	2	2.00	402	0.38
230-kV Substation Access Roads	Off-Highway Trucks	2	8.00	402	0.38
230-kV Substation Access Roads	Tractors/Loaders/Backhoes	2	8.00	97	0.37
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Graders	1	8.00	187	0.41
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Off-Highway Trucks	4	10.00	402	0.38
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Off-Highway Trucks	2	10.00	402	0.38
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Rollers	2	8.00	80	0.38
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Rubber Tired Dozers	1	8.00	247	0.40
230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Rubber Tired Loaders	1	8.00	203	0.36

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230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization	Scrapers	1	8.00	367	0.48
230-kV Substation Fence and Gate Installation	Skid Steer Loaders	1	4.00	65	0.37
Reconductoring Segment Conductor Installation	Forklifts	1	3.00	89	0.20
Reconductoring Segment Conductor Installation	Off-Highway Trucks	2	6.00	402	0.38
Reconductoring Segment Conductor Installation	Off-Highway Trucks	2	6.00	402	0.38
Reconductoring Segment Conductor Installation	Off-Highway Trucks	2	4.00	402	0.38
Reconductoring Segment Conductor Installation	Off-Highway Trucks	1	6.00	402	0.38
Reconductoring Segment Conductor Installation	Other General Industrial Equipment	1	6.00	88	0.34
Reconductoring Segment Conductor Installation	Other General Industrial Equipment	1	6.00	88	0.34
230-kV Substation Foundation Construction	Bore/Drill Rigs	1	8.00	221	0.50
230-kV Substation Foundation Construction	Cranes	1	5.00	231	0.29
230-kV Substation Foundation Construction	Tractors/Loaders/Backhoes	1	5.00	97	0.37
70-kV Substation Mobilization	Graders	1	4.00	187	0.41
70-kV Substation Mobilization	Tractors/Loaders/Backhoes	1	4.00	97	0.37
70-kV Substation Foundation Construction	Bore/Drill Rigs	1	8.00	221	0.50
70-kV Substation Foundation Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
70-kV Substation Foundation Construction	Trenchers	1	8.00	78	0.50
70-kV Substation Ground Grid Conduit Installation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
70-kV Substation Ground Grid Conduit Installation	Trenchers	1	6.00	78	0.50
230-kV Substation Ground Grid Conduit Installation	Trenchers	1	8.00	78	0.50
230-kV Substation Steel Bus Erection	Aerial Lifts	1	6.00	62	0.31
230-kV Substation Steel Bus Erection	Off-Highway Trucks	1	8.00	402	0.38
230-kV Substation Install Yard Rock	Off-Highway Trucks	1	10.00	402	0.38

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230-kV Substation Install Yard Rock	Skid Steer Loaders	1	10.00	65	0.37
70-kV Substation Steel Bus Erection	Aerial Lifts	2	8.00	62	0.31
70-kV Substation Steel Bus Erection	Off-Highway Trucks	2	6.00	402	0.38
230-kV Substation Transformer & Equip Delivery & Installation	Generator Sets	1	5.00	84	0.74
230-kV Substation Transformer & Equip Delivery & Installation	Off-Highway Trucks	2	10.00	402	0.38
230-kV Substation Transformer & Equip Delivery & Installation	Off-Highway Trucks	1	4.80	402	0.38
230-kV Substation Transformer & Equip Delivery & Installation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
230-kV Substation Control Enclosure Delivery and Install	Cranes	1	6.00	231	0.29
230-kV Substation Remaining Equipment Delivery and Install	Off-Highway Trucks	1	6.00	402	0.38
230-kV Transmission Conductor	Cranes	3	6.00	231	0.29
230-kV Transmission Conductor	Off-Highway Trucks	2	4.00	402	0.38
230-kV Transmission Conductor	Off-Highway Trucks	2	4.00	402	0.38
70-kV Substation Equip Delivery & Installation	Aerial Lifts	2	4.00	62	0.31
70-kV Substation Equip Delivery & Installation	Off-Highway Trucks	1	5.30	402	0.38
70-kV Substation Control Enclosure Delivery and Install	Off-Highway Trucks	0	0.00	402	0.38
230-kV Transmission Site Clean-up and Restoration	Graders	1	8.00	187	0.41
230-kV Transmission Site Clean-up and Restoration	Tractors/Loaders/Backhoes	1	4.00	97	0.37
230-kV Substation Cable Installation and Termination	Aerial Lifts	1	8.00	62	0.31
230-kV Substation Testing and Commissioning	Off-Highway Trucks	0	0.00	402	0.38
70-kV Substation Cable Installation and Termination	Off-Highway Trucks	0	0.00	402	0.38
70-kV Power Line Site Development Mobilization	Graders	2	6.00	187	0.41
70-kV Power Line Site Development Mobilization	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Reconductoring Segment Clean-up and Restoration	Graders	1	6.00	187	0.41

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Reconductoring Segment Clean-up and Restoration	Tractors/Loaders/Backhoes	1	4.00	97	0.37
70-kV Power Line Pole Tower Installation	Cranes	1	4.00	231	0.29
70-kV Power Line Pole Tower Installation	Off-Highway Trucks	3	4.00	402	0.38
70-kV Power Line Pole Tower Installation	Off-Highway Trucks	3	4.00	402	0.38
70-kV Power Line Pole Tower Installation	Tractors/Loaders/Backhoes	2	4.00	97	0.37
70-kV Power Line Pole Tower Installation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
70-kV Substation Install Yard Rock	Off-Highway Trucks	1	8.00	402	0.38
70-kV Substation Install Yard Rock	Skid Steer Loaders	1	8.00	65	0.37
70-kV Substation Install Yard Rock	Tractors/Loaders/Backhoes	1	8.00	97	0.37
230-kV Substation Cleanup and Restoration	Other General Industrial Equipment	1	6.00	88	0.34
230-kV Substation Cleanup and Restoration	Tractors/Loaders/Backhoes	1	6.00	97	0.37
70-kV Cleanup and Restoration	Off-Highway Trucks	0	0.00	402	0.38
70-kV Substation Testing and Commissioning	Off-Highway Trucks	0	0.00	402	0.38
70-kV Power Line Conductor Installation	Cranes	3	6.00	231	0.29
70-kV Power Line Conductor Installation	Forklifts	1	3.00	89	0.20
70-kV Power Line Conductor Installation	Off-Highway Trucks	3	4.00	402	0.38
70-kV Power Line Conductor Installation	Off-Highway Trucks	1	6.00	402	0.38
70-kV Power Line Conductor Installation	Off-Highway Trucks	2	2.00	402	0.38
70-kV Power Line Conductor Installation	Other General Industrial Equipment	1	6.00	88	0.34
70-kV Power Line Conductor Installation	Other General Industrial Equipment	1	6.00	88	0.34
70-kV Power Line Clean-up and Restoration	Graders	1	6.00	187	0.41
70-kV Power Line Clean-up and Restoration	Tractors/Loaders/Backhoes	1	4.00	97	0.37

**Trips and VMT**

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
230-kV Transmission Site Work Area Prepar	2	22.00	11.00	104.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Transmission Foundation Tower Insta	13	30.00	12.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Reconductoring Segment Site Develop	2	18.00	10.00	0.00	7.67	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Reconductoring Segment Pole Installati	9	38.00	13.00	0.00	6.32	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Access Roads	4	24.00	33.00	0.00	8.45	1.90	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Site Prep Grading Entrance	12	26.00	30.00	393.00	7.85	1.20	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Fence and Gate Install	1	18.00	30.00	0.00	5.87	1.85	20.00	LD_Mix	HDT_Mix	HHDT
Reconductoring Segment Conductor In	10	28.00	10.00	0.00	7.50	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Foundation Constructio	3	22.00	31.00	0.00	8.38	1.85	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Mobilization	2	16.00	6.00	0.00	7.68	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Foundation Constructio	3	22.00	13.00	0.00	8.45	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Ground Grid Conduit In	2	12.00	9.00	0.00	8.45	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Ground Grid Conduit In	1	12.00	29.00	0.00	9.15	0.91	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Steel Bus Erection	2	12.00	30.00	0.00	9.56	1.20	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Install Yard Rock	2	18.00	45.00	0.00	8.97	8.68	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Steel Bus Erection	4	14.00	9.00	0.00	7.34	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Transformer & Equip D	5	18.00	30.00	0.00	8.52	1.15	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Control Enclosure Deliv	1	12.00	2.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Remaining Equipment	1	9.00	28.00	0.00	10.00	1.34	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Transmission Conductor	7	38.00	11.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Equip Delivery & Install	3	16.00	12.00	0.00	7.68	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Control Enclosure Deliv	0	12.00	2.00	0.00	9.23	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Transmission Site Clean-up and Rest	2	14.00	9.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Cable Installation and T	1	10.00	3.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Testing and Commissi	0	12.00	26.00	0.00	6.79	13.00	20.00	LD_Mix	HDT_Mix	HHDT



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70-kV Substation Cable Installation and T	0	12.00	3.00	0.00	6.72	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Power Line Site Development Mobilizati	3	20.00	10.00	0.00	8.68	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Reconductoring	2	16.00	5.00	0.00	8.25	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Segment Clean up and										
70-kV Power Line Pole Tower Installation	10	41.00	15.00	0.00	8.15	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Install Yard Back	3	12.00	16.00	0.00	10.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
230-kV Substation Cleanup and Restoration	2	8.00	29.00	0.00	7.68	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Cleanup and Restoration	0	10.00	0.00	0.00	8.14	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Substation Testing and Commissi	0	12.00	2.00	0.00	8.45	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Power Line Conductor Installation	12	32.00	10.00	0.00	8.56	13.00	20.00	LD_Mix	HDT_Mix	HHDT
70-kV Power Line Clean up and Restorati	2	16.00	7.00	0.00	9.18	13.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 230-kV Transmission Site Work Area Preparation Mobilization - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8081	0.0000	0.8081	0.0878	0.0000	0.0878			0.0000			0.0000
Off-Road	0.4348	5.1999	2.9698	7.3000e-003		0.1930	0.1930		0.1776	0.1776		706.8884	706.8884	0.2286		712.6040
<b>Total</b>	<b>0.4348</b>	<b>5.1999</b>	<b>2.9698</b>	<b>7.3000e-003</b>	<b>0.8081</b>	<b>0.1930</b>	<b>1.0011</b>	<b>0.0878</b>	<b>0.1776</b>	<b>0.2654</b>		<b>706.8884</b>	<b>706.8884</b>	<b>0.2286</b>		<b>712.6040</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.2 230-kV Transmission Site Work Area Preparation Mobilization - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0650	2.2878	0.5415	6.6800e-003	0.1514	9.0900e-003	0.1604	0.0415	8.7000e-003	0.0502		722.6477	722.6477	0.0421		723.6996
Vendor	0.0533	1.5702	0.4231	4.8000e-003	0.1324	5.9200e-003	0.1383	0.0381	5.6700e-003	0.0437		512.0216	512.0216	0.0218		512.5671
Worker	0.0683	0.0503	0.5220	1.4700e-003	0.1674	1.0400e-003	0.1684	0.0444	9.6000e-004	0.0454		146.7023	146.7023	4.1800e-003		146.8069
<b>Total</b>	<b>0.1866</b>	<b>3.9083</b>	<b>1.4867</b>	<b>0.0130</b>	<b>0.4511</b>	<b>0.0161</b>	<b>0.4671</b>	<b>0.1239</b>	<b>0.0153</b>	<b>0.1393</b>		<b>1,381.3716</b>	<b>1,381.3716</b>	<b>0.0681</b>		<b>1,383.0736</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3152	0.0000	0.3152	0.0342	0.0000	0.0342			0.0000			0.0000
Off-Road	0.4348	5.1999	2.9698	7.3000e-003		0.1930	0.1930		0.1776	0.1776	0.0000	706.8884	706.8884	0.2286		712.6040
<b>Total</b>	<b>0.4348</b>	<b>5.1999</b>	<b>2.9698</b>	<b>7.3000e-003</b>	<b>0.3152</b>	<b>0.1930</b>	<b>0.5081</b>	<b>0.0342</b>	<b>0.1776</b>	<b>0.2118</b>	<b>0.0000</b>	<b>706.8884</b>	<b>706.8884</b>	<b>0.2286</b>		<b>712.6040</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.2 230-kV Transmission Site Work Area Preparation Mobilization - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0650	2.2878	0.5415	6.6800e-003	0.1514	9.0900e-003	0.1604	0.0415	8.7000e-003	0.0502		722.6477	722.6477	0.0421		723.6996
Vendor	0.0533	1.5702	0.4231	4.8000e-003	0.1324	5.9200e-003	0.1383	0.0381	5.6700e-003	0.0437		512.0216	512.0216	0.0218		512.5671
Worker	0.0683	0.0503	0.5220	1.4700e-003	0.1674	1.0400e-003	0.1684	0.0444	9.6000e-004	0.0454		146.7023	146.7023	4.1800e-003		146.8069
<b>Total</b>	<b>0.1866</b>	<b>3.9083</b>	<b>1.4867</b>	<b>0.0130</b>	<b>0.4511</b>	<b>0.0161</b>	<b>0.4671</b>	<b>0.1239</b>	<b>0.0153</b>	<b>0.1393</b>		<b>1,381.3716</b>	<b>1,381.3716</b>	<b>0.0681</b>		<b>1,383.0736</b>

**3.3 230-kV Transmission Foundation Tower Installation Remove two towers - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7490	16.2551	10.7389	0.0358		0.6653	0.6653		0.6121	0.6121		3,466.3790	3,466.3790	1.1211		3,494.4065
<b>Total</b>	<b>1.7490</b>	<b>16.2551</b>	<b>10.7389</b>	<b>0.0358</b>		<b>0.6653</b>	<b>0.6653</b>		<b>0.6121</b>	<b>0.6121</b>		<b>3,466.3790</b>	<b>3,466.3790</b>	<b>1.1211</b>		<b>3,494.4065</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.3 230-kV Transmission Foundation Tower Installation Remove two towers - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0581	1.7130	0.4616	5.2400e-003	0.1444	6.4600e-003	0.1508	0.0415	6.1800e-003	0.0477		558.5690	558.5690	0.0238		559.1641
Worker	0.0932	0.0686	0.7118	2.0100e-003	0.2282	1.4200e-003	0.2296	0.0605	1.3000e-003	0.0618		200.0486	200.0486	5.7100e-003		200.1912
<b>Total</b>	<b>0.1513</b>	<b>1.7815</b>	<b>1.1734</b>	<b>7.2500e-003</b>	<b>0.3726</b>	<b>7.8800e-003</b>	<b>0.3805</b>	<b>0.1021</b>	<b>7.4800e-003</b>	<b>0.1096</b>		<b>758.6176</b>	<b>758.6176</b>	<b>0.0295</b>		<b>759.3553</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7490	16.2551	10.7389	0.0358		0.6653	0.6653		0.6121	0.6121	0.0000	3,466.3790	3,466.3790	1.1211		3,494.4065
<b>Total</b>	<b>1.7490</b>	<b>16.2551</b>	<b>10.7389</b>	<b>0.0358</b>		<b>0.6653</b>	<b>0.6653</b>		<b>0.6121</b>	<b>0.6121</b>	<b>0.0000</b>	<b>3,466.3790</b>	<b>3,466.3790</b>	<b>1.1211</b>		<b>3,494.4065</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.3 230-kV Transmission Foundation Tower Installation Remove two towers - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0581	1.7130	0.4616	5.2400e-003	0.1444	6.4600e-003	0.1508	0.0415	6.1800e-003	0.0477		558.5690	558.5690	0.0238		559.1641
Worker	0.0932	0.0686	0.7118	2.0100e-003	0.2282	1.4200e-003	0.2296	0.0605	1.3000e-003	0.0618		200.0486	200.0486	5.7100e-003		200.1912
<b>Total</b>	<b>0.1513</b>	<b>1.7815</b>	<b>1.1734</b>	<b>7.2500e-003</b>	<b>0.3726</b>	<b>7.8800e-003</b>	<b>0.3805</b>	<b>0.1021</b>	<b>7.4800e-003</b>	<b>0.1096</b>		<b>758.6176</b>	<b>758.6176</b>	<b>0.0295</b>		<b>759.3553</b>

**3.4 Reconductoring Segment Site Development Mobilization - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7954	0.0000	0.7954	0.0859	0.0000	0.0859			0.0000			0.0000
Off-Road	0.3936	4.7810	2.4103	6.5200e-003		0.1705	0.1705		0.1568	0.1568		631.5787	631.5787	0.2043		636.6853
<b>Total</b>	<b>0.3936</b>	<b>4.7810</b>	<b>2.4103</b>	<b>6.5200e-003</b>	<b>0.7954</b>	<b>0.1705</b>	<b>0.9658</b>	<b>0.0859</b>	<b>0.1568</b>	<b>0.2427</b>		<b>631.5787</b>	<b>631.5787</b>	<b>0.2043</b>		<b>636.6853</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.4 Reconductoring Segment Site Development Mobilization - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0484	1.4275	0.3847	4.3700e-003	0.1203	5.3900e-003	0.1257	0.0346	5.1500e-003	0.0398		465.4742	465.4742	0.0198		465.9701
Worker	0.0471	0.0330	0.3453	9.3000e-004	0.1051	6.8000e-004	0.1057	0.0279	6.2000e-004	0.0285		92.9548	92.9548	2.7200e-003		93.0228
<b>Total</b>	<b>0.0955</b>	<b>1.4604</b>	<b>0.7300</b>	<b>5.3000e-003</b>	<b>0.2254</b>	<b>6.0700e-003</b>	<b>0.2314</b>	<b>0.0625</b>	<b>5.7700e-003</b>	<b>0.0683</b>		<b>558.4290</b>	<b>558.4290</b>	<b>0.0226</b>		<b>558.9929</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3102	0.0000	0.3102	0.0335	0.0000	0.0335			0.0000			0.0000
Off-Road	0.3936	4.7810	2.4103	6.5200e-003		0.1705	0.1705		0.1568	0.1568	0.0000	631.5787	631.5787	0.2043		636.6853
<b>Total</b>	<b>0.3936</b>	<b>4.7810</b>	<b>2.4103</b>	<b>6.5200e-003</b>	<b>0.3102</b>	<b>0.1705</b>	<b>0.4807</b>	<b>0.0335</b>	<b>0.1568</b>	<b>0.1903</b>	<b>0.0000</b>	<b>631.5787</b>	<b>631.5787</b>	<b>0.2043</b>		<b>636.6853</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.4 Reconductoring Segment Site Development Mobilization - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0484	1.4275	0.3847	4.3700e-003	0.1203	5.3900e-003	0.1257	0.0346	5.1500e-003	0.0398		465.4742	465.4742	0.0198		465.9701
Worker	0.0471	0.0330	0.3453	9.3000e-004	0.1051	6.8000e-004	0.1057	0.0279	6.2000e-004	0.0285		92.9548	92.9548	2.7200e-003		93.0228
<b>Total</b>	<b>0.0955</b>	<b>1.4604</b>	<b>0.7300</b>	<b>5.3000e-003</b>	<b>0.2254</b>	<b>6.0700e-003</b>	<b>0.2314</b>	<b>0.0625</b>	<b>5.7700e-003</b>	<b>0.0683</b>		<b>558.4290</b>	<b>558.4290</b>	<b>0.0226</b>		<b>558.9929</b>

**3.5 Reconductoring Segment Pole Installation Transfer Distribution Pole Removal - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7144	16.6546	10.2236	0.0373		0.6496	0.6496		0.5977	0.5977		3,611.1243	3,611.1243	1.1679		3,640.3221
<b>Total</b>	<b>1.7144</b>	<b>16.6546</b>	<b>10.2236</b>	<b>0.0373</b>		<b>0.6496</b>	<b>0.6496</b>		<b>0.5977</b>	<b>0.5977</b>		<b>3,611.1243</b>	<b>3,611.1243</b>	<b>1.1679</b>		<b>3,640.3221</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.5 Reconductoring Segment Pole Installation Transfer  
Distribution Pole Removal - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0630	1.8557	0.5001	5.6800e-003	0.1564	7.0000e-003	0.1634	0.0450	6.7000e-003	0.0517		605.1165	605.1165	0.0258		605.7611
Worker	0.0886	0.0596	0.6289	1.6400e-003	0.1828	1.2200e-003	0.1841	0.0485	1.1200e-003	0.0496		163.1212	163.1212	4.8800e-003		163.2433
<b>Total</b>	<b>0.1516</b>	<b>1.9153</b>	<b>1.1289</b>	<b>7.3200e-003</b>	<b>0.3392</b>	<b>8.2200e-003</b>	<b>0.3475</b>	<b>0.0935</b>	<b>7.8200e-003</b>	<b>0.1013</b>		<b>768.2377</b>	<b>768.2377</b>	<b>0.0307</b>		<b>769.0044</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7144	16.6546	10.2236	0.0373		0.6496	0.6496		0.5977	0.5977	0.0000	3,611.1243	3,611.1243	1.1679		3,640.3221
<b>Total</b>	<b>1.7144</b>	<b>16.6546</b>	<b>10.2236</b>	<b>0.0373</b>		<b>0.6496</b>	<b>0.6496</b>		<b>0.5977</b>	<b>0.5977</b>	<b>0.0000</b>	<b>3,611.1243</b>	<b>3,611.1243</b>	<b>1.1679</b>		<b>3,640.3221</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.5 Reconductoring Segment Pole Installation Transfer  
Distribution Pole Removal - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0630	1.8557	0.5001	5.6800e-003	0.1564	7.0000e-003	0.1634	0.0450	6.7000e-003	0.0517		605.1165	605.1165	0.0258		605.7611
Worker	0.0886	0.0596	0.6289	1.6400e-003	0.1828	1.2200e-003	0.1841	0.0485	1.1200e-003	0.0496		163.1212	163.1212	4.8800e-003		163.2433
<b>Total</b>	<b>0.1516</b>	<b>1.9153</b>	<b>1.1289</b>	<b>7.3200e-003</b>	<b>0.3392</b>	<b>8.2200e-003</b>	<b>0.3475</b>	<b>0.0935</b>	<b>7.8200e-003</b>	<b>0.1013</b>		<b>768.2377</b>	<b>768.2377</b>	<b>0.0307</b>		<b>769.0044</b>

**3.5 Reconductoring Segment Pole Installation Transfer  
Distribution Pole Removal - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6258	15.0514	9.9920	0.0373		0.5892	0.5892		0.5421	0.5421		3,613.6088	3,613.6088	1.1687		3,642.8266
<b>Total</b>	<b>1.6258</b>	<b>15.0514</b>	<b>9.9920</b>	<b>0.0373</b>		<b>0.5892</b>	<b>0.5892</b>		<b>0.5421</b>	<b>0.5421</b>		<b>3,613.6088</b>	<b>3,613.6088</b>	<b>1.1687</b>		<b>3,642.8266</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.5 Reconductoring Segment Pole Installation Transfer  
Distribution Pole Removal - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0474	1.4333	0.4421	5.5600e-003	0.1564	3.3100e-003	0.1598	0.0450	3.1700e-003	0.0482		593.7102	593.7102	0.0239		594.3085
Worker	0.0829	0.0536	0.5744	1.5800e-003	0.1828	1.1900e-003	0.1840	0.0485	1.0900e-003	0.0496		157.0149	157.0149	4.3600e-003		157.1240
<b>Total</b>	<b>0.1302</b>	<b>1.4868</b>	<b>1.0165</b>	<b>7.1400e-003</b>	<b>0.3393</b>	<b>4.5000e-003</b>	<b>0.3438</b>	<b>0.0935</b>	<b>4.2600e-003</b>	<b>0.0978</b>		<b>750.7251</b>	<b>750.7251</b>	<b>0.0283</b>		<b>751.4325</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6258	15.0514	9.9920	0.0373		0.5892	0.5892		0.5421	0.5421	0.0000	3,613.6088	3,613.6088	1.1687		3,642.8266
<b>Total</b>	<b>1.6258</b>	<b>15.0514</b>	<b>9.9920</b>	<b>0.0373</b>		<b>0.5892</b>	<b>0.5892</b>		<b>0.5421</b>	<b>0.5421</b>	<b>0.0000</b>	<b>3,613.6088</b>	<b>3,613.6088</b>	<b>1.1687</b>		<b>3,642.8266</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.5 Reconductoring Segment Pole Installation Transfer  
Distribution Pole Removal - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0474	1.4333	0.4421	5.5600e-003	0.1564	3.3100e-003	0.1598	0.0450	3.1700e-003	0.0482		593.7102	593.7102	0.0239		594.3085
Worker	0.0829	0.0536	0.5744	1.5800e-003	0.1828	1.1900e-003	0.1840	0.0485	1.0900e-003	0.0496		157.0149	157.0149	4.3600e-003		157.1240
<b>Total</b>	<b>0.1302</b>	<b>1.4868</b>	<b>1.0165</b>	<b>7.1400e-003</b>	<b>0.3393</b>	<b>4.5000e-003</b>	<b>0.3438</b>	<b>0.0935</b>	<b>4.2600e-003</b>	<b>0.0978</b>		<b>750.7251</b>	<b>750.7251</b>	<b>0.0283</b>		<b>751.4325</b>

**3.6 230-kV Substation Access Roads - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.3863	11.3787	11.1933	0.0327		0.4721	0.4721		0.4344	0.4344		3,160.4485	3,160.4485	1.0222		3,186.0023
<b>Total</b>	<b>1.3863</b>	<b>11.3787</b>	<b>11.1933</b>	<b>0.0327</b>	<b>0.0000</b>	<b>0.4721</b>	<b>0.4721</b>	<b>0.0000</b>	<b>0.4344</b>	<b>0.4344</b>		<b>3,160.4485</b>	<b>3,160.4485</b>	<b>1.0222</b>		<b>3,186.0023</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.6 230-kV Substation Access Roads - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0635	2.2904	0.6095	3.5200e-003	0.0588	3.7800e-003	0.0625	0.0170	3.6100e-003	0.0206		376.1312	376.1312	0.0291		376.8573
Worker	0.0667	0.0476	0.4969	1.3700e-003	0.1543	9.8000e-004	0.1553	0.0409	9.0000e-004	0.0418		136.0244	136.0244	3.9400e-003		136.1229
<b>Total</b>	<b>0.1303</b>	<b>2.3380</b>	<b>1.1063</b>	<b>4.8900e-003</b>	<b>0.2131</b>	<b>4.7600e-003</b>	<b>0.2178</b>	<b>0.0579</b>	<b>4.5100e-003</b>	<b>0.0624</b>		<b>512.1556</b>	<b>512.1556</b>	<b>0.0330</b>		<b>512.9802</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.3863	11.3787	11.1933	0.0327		0.4721	0.4721		0.4344	0.4344	0.0000	3,160.4485	3,160.4485	1.0222		3,186.0023
<b>Total</b>	<b>1.3863</b>	<b>11.3787</b>	<b>11.1933</b>	<b>0.0327</b>	<b>0.0000</b>	<b>0.4721</b>	<b>0.4721</b>	<b>0.0000</b>	<b>0.4344</b>	<b>0.4344</b>	<b>0.0000</b>	<b>3,160.4485</b>	<b>3,160.4485</b>	<b>1.0222</b>		<b>3,186.0023</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.6 230-kV Substation Access Roads - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0635	2.2904	0.6095	3.5200e-003	0.0588	3.7800e-003	0.0625	0.0170	3.6100e-003	0.0206		376.1312	376.1312	0.0291		376.8573
Worker	0.0667	0.0476	0.4969	1.3700e-003	0.1543	9.8000e-004	0.1553	0.0409	9.0000e-004	0.0418		136.0244	136.0244	3.9400e-003		136.1229
<b>Total</b>	<b>0.1303</b>	<b>2.3380</b>	<b>1.1063</b>	<b>4.8900e-003</b>	<b>0.2131</b>	<b>4.7600e-003</b>	<b>0.2178</b>	<b>0.0579</b>	<b>4.5100e-003</b>	<b>0.0624</b>		<b>512.1556</b>	<b>512.1556</b>	<b>0.0330</b>		<b>512.9802</b>

**3.7 230-kV Substation Site Prep Grading Entrance Road Culverts**

**Mobilization - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2392	0.0000	7.2392	3.4427	0.0000	3.4427			0.0000			0.0000
Off-Road	6.6584	59.5744	42.1219	0.1410		2.3287	2.3287		2.1424	2.1424		13,644.8698	13,644.8698	4.4130		13,755.1955
<b>Total</b>	<b>6.6584</b>	<b>59.5744</b>	<b>42.1219</b>	<b>0.1410</b>	<b>7.2392</b>	<b>2.3287</b>	<b>9.5680</b>	<b>3.4427</b>	<b>2.1424</b>	<b>5.5851</b>		<b>13,644.8698</b>	<b>13,644.8698</b>	<b>4.4130</b>		<b>13,755.1955</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.7 230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1228	4.3226	1.0232	0.0126	0.2860	0.0172	0.3031	0.0784	0.0164	0.0948		1,365.3872	1,365.3872	0.0795		1,367.3747
Vendor	0.0523	1.9434	0.5162	2.5800e-003	0.0340	2.6300e-003	0.0367	9.8700e-003	2.5100e-003	0.0124		275.4384	275.4384	0.0243		276.0463
Worker	0.0690	0.0486	0.5079	1.3800e-003	0.1553	1.0000e-003	0.1563	0.0412	9.2000e-004	0.0421		137.2892	137.2892	4.0100e-003		137.3894
<b>Total</b>	<b>0.2440</b>	<b>6.3146</b>	<b>2.0473</b>	<b>0.0166</b>	<b>0.4753</b>	<b>0.0208</b>	<b>0.4961</b>	<b>0.1294</b>	<b>0.0199</b>	<b>0.1493</b>		<b>1,778.1148</b>	<b>1,778.1148</b>	<b>0.1078</b>		<b>1,780.8104</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8233	0.0000	2.8233	1.3427	0.0000	1.3427			0.0000			0.0000
Off-Road	6.6584	59.5744	42.1219	0.1410		2.3287	2.3287		2.1424	2.1424	0.0000	13,644.8698	13,644.8698	4.4130		13,755.1955
<b>Total</b>	<b>6.6584</b>	<b>59.5744</b>	<b>42.1219</b>	<b>0.1410</b>	<b>2.8233</b>	<b>2.3287</b>	<b>5.1520</b>	<b>1.3427</b>	<b>2.1424</b>	<b>3.4851</b>	<b>0.0000</b>	<b>13,644.8698</b>	<b>13,644.8698</b>	<b>4.4130</b>		<b>13,755.1955</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.7 230-kV Substation Site Prep Grading Entrance Road Culverts Mobilization - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1228	4.3226	1.0232	0.0126	0.2860	0.0172	0.3031	0.0784	0.0164	0.0948		1,365.3872	1,365.3872	0.0795		1,367.3747
Vendor	0.0523	1.9434	0.5162	2.5800e-003	0.0340	2.6300e-003	0.0367	9.8700e-003	2.5100e-003	0.0124		275.4384	275.4384	0.0243		276.0463
Worker	0.0690	0.0486	0.5079	1.3800e-003	0.1553	1.0000e-003	0.1563	0.0412	9.2000e-004	0.0421		137.2892	137.2892	4.0100e-003		137.3894
<b>Total</b>	<b>0.2440</b>	<b>6.3146</b>	<b>2.0473</b>	<b>0.0166</b>	<b>0.4753</b>	<b>0.0208</b>	<b>0.4961</b>	<b>0.1294</b>	<b>0.0199</b>	<b>0.1493</b>		<b>1,778.1148</b>	<b>1,778.1148</b>	<b>0.1078</b>		<b>1,780.8104</b>

**3.8 230-kV Substation Fence and Gate Installation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0348	0.4643	0.6936	1.0400e-003		0.0173	0.0173		0.0159	0.0159		100.1956	100.1956	0.0324		101.0058
<b>Total</b>	<b>0.0348</b>	<b>0.4643</b>	<b>0.6936</b>	<b>1.0400e-003</b>		<b>0.0173</b>	<b>0.0173</b>		<b>0.0159</b>	<b>0.0159</b>		<b>100.1956</b>	<b>100.1956</b>	<b>0.0324</b>		<b>101.0058</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.8 230-kV Substation Fence and Gate Installation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0574	2.0722	0.5513	3.1600e-003	0.0520	3.3700e-003	0.0554	0.0150	3.2300e-003	0.0183		337.1875	337.1875	0.0263		337.8439
Worker	0.0403	0.0267	0.2821	7.2000e-004	0.0805	5.4000e-004	0.0810	0.0214	5.0000e-004	0.0219		72.0390	72.0390	2.1800e-003		72.0934
<b>Total</b>	<b>0.0976</b>	<b>2.0989</b>	<b>0.8334</b>	<b>3.8800e-003</b>	<b>0.1325</b>	<b>3.9100e-003</b>	<b>0.1364</b>	<b>0.0364</b>	<b>3.7300e-003</b>	<b>0.0401</b>		<b>409.2265</b>	<b>409.2265</b>	<b>0.0284</b>		<b>409.9373</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0348	0.4643	0.6936	1.0400e-003		0.0173	0.0173		0.0159	0.0159	0.0000	100.1956	100.1956	0.0324		101.0058
<b>Total</b>	<b>0.0348</b>	<b>0.4643</b>	<b>0.6936</b>	<b>1.0400e-003</b>		<b>0.0173</b>	<b>0.0173</b>		<b>0.0159</b>	<b>0.0159</b>	<b>0.0000</b>	<b>100.1956</b>	<b>100.1956</b>	<b>0.0324</b>		<b>101.0058</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.8 230-kV Substation Fence and Gate Installation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0574	2.0722	0.5513	3.1600e-003	0.0520	3.3700e-003	0.0554	0.0150	3.2300e-003	0.0183		337.1875	337.1875	0.0263		337.8439
Worker	0.0403	0.0267	0.2821	7.2000e-004	0.0805	5.4000e-004	0.0810	0.0214	5.0000e-004	0.0219		72.0390	72.0390	2.1800e-003		72.0934
<b>Total</b>	<b>0.0976</b>	<b>2.0989</b>	<b>0.8334</b>	<b>3.8800e-003</b>	<b>0.1325</b>	<b>3.9100e-003</b>	<b>0.1364</b>	<b>0.0364</b>	<b>3.7300e-003</b>	<b>0.0401</b>		<b>409.2265</b>	<b>409.2265</b>	<b>0.0284</b>		<b>409.9373</b>

**3.9 Reconductoring Segment Conductor Installation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.8207	21.9934	19.2902	0.0672		0.8771	0.8771		0.8069	0.8069		6,502.7190	6,502.7190	2.1031		6,555.2967
<b>Total</b>	<b>2.8207</b>	<b>21.9934</b>	<b>19.2902</b>	<b>0.0672</b>		<b>0.8771</b>	<b>0.8771</b>		<b>0.8069</b>	<b>0.8069</b>		<b>6,502.7190</b>	<b>6,502.7190</b>	<b>2.1031</b>		<b>6,555.2967</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.9 Reconductoring Segment Conductor Installation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0484	1.4275	0.3847	4.3700e-003	0.1203	5.3900e-003	0.1257	0.0346	5.1500e-003	0.0398		465.4742	465.4742	0.0198		465.9701
Worker	0.0722	0.0504	0.5278	1.4200e-003	0.1598	1.0300e-003	0.1609	0.0424	9.5000e-004	0.0434		141.5235	141.5235	4.1500e-003		141.6273
<b>Total</b>	<b>0.1207</b>	<b>1.4778</b>	<b>0.9125</b>	<b>5.7900e-003</b>	<b>0.2801</b>	<b>6.4200e-003</b>	<b>0.2866</b>	<b>0.0770</b>	<b>6.1000e-003</b>	<b>0.0831</b>		<b>606.9977</b>	<b>606.9977</b>	<b>0.0240</b>		<b>607.5974</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.8207	21.9934	19.2902	0.0672		0.8771	0.8771		0.8069	0.8069	0.0000	6,502.7189	6,502.7189	2.1031		6,555.2967
<b>Total</b>	<b>2.8207</b>	<b>21.9934</b>	<b>19.2902</b>	<b>0.0672</b>		<b>0.8771</b>	<b>0.8771</b>		<b>0.8069</b>	<b>0.8069</b>	<b>0.0000</b>	<b>6,502.7189</b>	<b>6,502.7189</b>	<b>2.1031</b>		<b>6,555.2967</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.9 Reconductoring Segment Conductor Installation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0484	1.4275	0.3847	4.3700e-003	0.1203	5.3900e-003	0.1257	0.0346	5.1500e-003	0.0398		465.4742	465.4742	0.0198		465.9701
Worker	0.0722	0.0504	0.5278	1.4200e-003	0.1598	1.0300e-003	0.1609	0.0424	9.5000e-004	0.0434		141.5235	141.5235	4.1500e-003		141.6273
<b>Total</b>	<b>0.1207</b>	<b>1.4778</b>	<b>0.9125</b>	<b>5.7900e-003</b>	<b>0.2801</b>	<b>6.4200e-003</b>	<b>0.2866</b>	<b>0.0770</b>	<b>6.1000e-003</b>	<b>0.0831</b>		<b>606.9977</b>	<b>606.9977</b>	<b>0.0240</b>		<b>607.5974</b>

**3.9 Reconductoring Segment Conductor Installation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6753	19.6218	18.9364	0.0672		0.7684	0.7684		0.7069	0.7069		6,507.0092	6,507.0092	2.1045		6,559.6217
<b>Total</b>	<b>2.6753</b>	<b>19.6218</b>	<b>18.9364</b>	<b>0.0672</b>		<b>0.7684</b>	<b>0.7684</b>		<b>0.7069</b>	<b>0.7069</b>		<b>6,507.0092</b>	<b>6,507.0092</b>	<b>2.1045</b>		<b>6,559.6217</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.9 Reconductoring Segment Conductor Installation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0364	1.1025	0.3401	4.2800e-003	0.1203	2.5500e-003	0.1229	0.0346	2.4400e-003	0.0371		456.7001	456.7001	0.0184		457.1604
Worker	0.0676	0.0453	0.4824	1.3700e-003	0.1598	1.0100e-003	0.1608	0.0424	9.3000e-004	0.0433		136.2222	136.2222	3.7100e-003		136.3150
<b>Total</b>	<b>0.1040</b>	<b>1.1478</b>	<b>0.8224</b>	<b>5.6500e-003</b>	<b>0.2802</b>	<b>3.5600e-003</b>	<b>0.2837</b>	<b>0.0770</b>	<b>3.3700e-003</b>	<b>0.0804</b>		<b>592.9224</b>	<b>592.9224</b>	<b>0.0221</b>		<b>593.4753</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6753	19.6218	18.9364	0.0672		0.7684	0.7684		0.7069	0.7069	0.0000	6,507.0092	6,507.0092	2.1045		6,559.6216
<b>Total</b>	<b>2.6753</b>	<b>19.6218</b>	<b>18.9364</b>	<b>0.0672</b>		<b>0.7684</b>	<b>0.7684</b>		<b>0.7069</b>	<b>0.7069</b>	<b>0.0000</b>	<b>6,507.0092</b>	<b>6,507.0092</b>	<b>2.1045</b>		<b>6,559.6216</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.9 Reconductoring Segment Conductor Installation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0364	1.1025	0.3401	4.2800e-003	0.1203	2.5500e-003	0.1229	0.0346	2.4400e-003	0.0371		456.7001	456.7001	0.0184		457.1604
Worker	0.0676	0.0453	0.4824	1.3700e-003	0.1598	1.0100e-003	0.1608	0.0424	9.3000e-004	0.0433		136.2222	136.2222	3.7100e-003		136.3150
<b>Total</b>	<b>0.1040</b>	<b>1.1478</b>	<b>0.8224</b>	<b>5.6500e-003</b>	<b>0.2802</b>	<b>3.5600e-003</b>	<b>0.2837</b>	<b>0.0770</b>	<b>3.3700e-003</b>	<b>0.0804</b>		<b>592.9224</b>	<b>592.9224</b>	<b>0.0221</b>		<b>593.4753</b>

**3.10 230-kV Substation Foundation Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5602	5.9289	4.6226	0.0150		0.2377	0.2377		0.2187	0.2187		1,451.1041	1,451.1041	0.4693		1,462.8371
<b>Total</b>	<b>0.5602</b>	<b>5.9289</b>	<b>4.6226</b>	<b>0.0150</b>		<b>0.2377</b>	<b>0.2377</b>		<b>0.2187</b>	<b>0.2187</b>		<b>1,451.1041</b>	<b>1,451.1041</b>	<b>0.4693</b>		<b>1,462.8371</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.10 230-kV Substation Foundation Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0593	2.1413	0.5697	3.2600e-003	0.0538	3.4900e-003	0.0573	0.0155	3.3300e-003	0.0189		348.4271	348.4271	0.0271		349.1053
Worker	0.0608	0.0434	0.4525	1.2400e-003	0.1403	8.9000e-004	0.1412	0.0372	8.2000e-004	0.0380		123.6949	123.6949	3.5900e-003		123.7846
<b>Total</b>	<b>0.1201</b>	<b>2.1847</b>	<b>1.0222</b>	<b>4.5000e-003</b>	<b>0.1941</b>	<b>4.3800e-003</b>	<b>0.1984</b>	<b>0.0528</b>	<b>4.1500e-003</b>	<b>0.0569</b>		<b>472.1220</b>	<b>472.1220</b>	<b>0.0307</b>		<b>472.8899</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5602	5.9289	4.6226	0.0150		0.2377	0.2377		0.2187	0.2187	0.0000	1,451.1041	1,451.1041	0.4693		1,462.8371
<b>Total</b>	<b>0.5602</b>	<b>5.9289</b>	<b>4.6226</b>	<b>0.0150</b>		<b>0.2377</b>	<b>0.2377</b>		<b>0.2187</b>	<b>0.2187</b>	<b>0.0000</b>	<b>1,451.1041</b>	<b>1,451.1041</b>	<b>0.4693</b>		<b>1,462.8371</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.10 230-kV Substation Foundation Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0593	2.1413	0.5697	3.2600e-003	0.0538	3.4900e-003	0.0573	0.0155	3.3300e-003	0.0189		348.4271	348.4271	0.0271		349.1053
Worker	0.0608	0.0434	0.4525	1.2400e-003	0.1403	8.9000e-004	0.1412	0.0372	8.2000e-004	0.0380		123.6949	123.6949	3.5900e-003		123.7846
<b>Total</b>	<b>0.1201</b>	<b>2.1847</b>	<b>1.0222</b>	<b>4.5000e-003</b>	<b>0.1941</b>	<b>4.3800e-003</b>	<b>0.1984</b>	<b>0.0528</b>	<b>4.1500e-003</b>	<b>0.0569</b>		<b>472.1220</b>	<b>472.1220</b>	<b>0.0307</b>		<b>472.8899</b>

**3.11 70-kV Substation Mobilization - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2651	0.0000	0.2651	0.0286	0.0000	0.0286			0.0000			0.0000
Off-Road	0.2899	3.4666	1.9799	4.8700e-003		0.1287	0.1287		0.1184	0.1184		471.2589	471.2589	0.1524		475.0693
<b>Total</b>	<b>0.2899</b>	<b>3.4666</b>	<b>1.9799</b>	<b>4.8700e-003</b>	<b>0.2651</b>	<b>0.1287</b>	<b>0.3938</b>	<b>0.0286</b>	<b>0.1184</b>	<b>0.1470</b>		<b>471.2589</b>	<b>471.2589</b>	<b>0.1524</b>		<b>475.0693</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.11 70-kV Substation Mobilization - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0291	0.8565	0.2308	2.6200e-003	0.0722	3.2300e-003	0.0754	0.0208	3.0900e-003	0.0239		279.2845	279.2845	0.0119		279.5820
Worker	0.0419	0.0294	0.3072	8.3000e-004	0.0935	6.0000e-004	0.0941	0.0248	5.6000e-004	0.0254		82.7298	82.7298	2.4200e-003		82.7903
<b>Total</b>	<b>0.0709</b>	<b>0.8858</b>	<b>0.5380</b>	<b>3.4500e-003</b>	<b>0.1657</b>	<b>3.8300e-003</b>	<b>0.1695</b>	<b>0.0456</b>	<b>3.6500e-003</b>	<b>0.0492</b>		<b>362.0143</b>	<b>362.0143</b>	<b>0.0143</b>		<b>362.3723</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1034	0.0000	0.1034	0.0112	0.0000	0.0112			0.0000			0.0000
Off-Road	0.2899	3.4666	1.9799	4.8700e-003		0.1287	0.1287		0.1184	0.1184	0.0000	471.2589	471.2589	0.1524		475.0693
<b>Total</b>	<b>0.2899</b>	<b>3.4666</b>	<b>1.9799</b>	<b>4.8700e-003</b>	<b>0.1034</b>	<b>0.1287</b>	<b>0.2321</b>	<b>0.0112</b>	<b>0.1184</b>	<b>0.1295</b>	<b>0.0000</b>	<b>471.2589</b>	<b>471.2589</b>	<b>0.1524</b>		<b>475.0693</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.11 70-kV Substation Mobilization - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0291	0.8565	0.2308	2.6200e-003	0.0722	3.2300e-003	0.0754	0.0208	3.0900e-003	0.0239		279.2845	279.2845	0.0119		279.5820
Worker	0.0419	0.0294	0.3072	8.3000e-004	0.0935	6.0000e-004	0.0941	0.0248	5.6000e-004	0.0254		82.7298	82.7298	2.4200e-003		82.7903
<b>Total</b>	<b>0.0709</b>	<b>0.8858</b>	<b>0.5380</b>	<b>3.4500e-003</b>	<b>0.1657</b>	<b>3.8300e-003</b>	<b>0.1695</b>	<b>0.0456</b>	<b>3.6500e-003</b>	<b>0.0492</b>		<b>362.0143</b>	<b>362.0143</b>	<b>0.0143</b>		<b>362.3723</b>

**3.12 70-kV Substation Foundation Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7527	7.3217	6.8781	0.0159		0.4023	0.4023		0.3702	0.3702		1,541.7492	1,541.7492	0.4986		1,554.2150
<b>Total</b>	<b>0.7527</b>	<b>7.3217</b>	<b>6.8781</b>	<b>0.0159</b>		<b>0.4023</b>	<b>0.4023</b>		<b>0.3702</b>	<b>0.3702</b>		<b>1,541.7492</b>	<b>1,541.7492</b>	<b>0.4986</b>		<b>1,554.2150</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.12 70-kV Substation Foundation Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0630	1.8557	0.5001	5.6800e-003	0.1564	7.0000e-003	0.1634	0.0450	6.7000e-003	0.0517		605.1165	605.1165	0.0258		605.7611
Worker	0.0612	0.0437	0.4555	1.2500e-003	0.1415	9.0000e-004	0.1424	0.0375	8.3000e-004	0.0384		124.6891	124.6891	3.6100e-003		124.7794
<b>Total</b>	<b>0.1241</b>	<b>1.8994</b>	<b>0.9556</b>	<b>6.9300e-003</b>	<b>0.2979</b>	<b>7.9000e-003</b>	<b>0.3058</b>	<b>0.0825</b>	<b>7.5300e-003</b>	<b>0.0900</b>		<b>729.8055</b>	<b>729.8055</b>	<b>0.0294</b>		<b>730.5405</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7527	7.3217	6.8781	0.0159		0.4023	0.4023		0.3702	0.3702	0.0000	1,541.7492	1,541.7492	0.4986		1,554.2150
<b>Total</b>	<b>0.7527</b>	<b>7.3217</b>	<b>6.8781</b>	<b>0.0159</b>		<b>0.4023</b>	<b>0.4023</b>		<b>0.3702</b>	<b>0.3702</b>	<b>0.0000</b>	<b>1,541.7492</b>	<b>1,541.7492</b>	<b>0.4986</b>		<b>1,554.2150</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.12 70-kV Substation Foundation Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0630	1.8557	0.5001	5.6800e-003	0.1564	7.0000e-003	0.1634	0.0450	6.7000e-003	0.0517		605.1165	605.1165	0.0258		605.7611
Worker	0.0612	0.0437	0.4555	1.2500e-003	0.1415	9.0000e-004	0.1424	0.0375	8.3000e-004	0.0384		124.6891	124.6891	3.6100e-003		124.7794
<b>Total</b>	<b>0.1241</b>	<b>1.8994</b>	<b>0.9556</b>	<b>6.9300e-003</b>	<b>0.2979</b>	<b>7.9000e-003</b>	<b>0.3058</b>	<b>0.0825</b>	<b>7.5300e-003</b>	<b>0.0900</b>		<b>729.8055</b>	<b>729.8055</b>	<b>0.0294</b>		<b>730.5405</b>

**3.13 70-kV Substation Ground Grid Conduit Installation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3964	3.7915	3.6277	4.8600e-003		0.2472	0.2472		0.2274	0.2274		471.1413	471.1413	0.1524		474.9507
<b>Total</b>	<b>0.3964</b>	<b>3.7915</b>	<b>3.6277</b>	<b>4.8600e-003</b>		<b>0.2472</b>	<b>0.2472</b>		<b>0.2274</b>	<b>0.2274</b>		<b>471.1413</b>	<b>471.1413</b>	<b>0.1524</b>		<b>474.9507</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.13 70-kV Substation Ground Grid Conduit Installation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0436	1.2847	0.3462	3.9300e-003	0.1083	4.8500e-003	0.1131	0.0312	4.6400e-003	0.0358		418.9268	418.9268	0.0179		419.3731
Worker	0.0334	0.0238	0.2485	6.8000e-004	0.0772	4.9000e-004	0.0776	0.0205	4.5000e-004	0.0209		68.0122	68.0122	1.9700e-003		68.0615
<b>Total</b>	<b>0.0770</b>	<b>1.3085</b>	<b>0.5947</b>	<b>4.6100e-003</b>	<b>0.1854</b>	<b>5.3400e-003</b>	<b>0.1908</b>	<b>0.0516</b>	<b>5.0900e-003</b>	<b>0.0567</b>		<b>486.9390</b>	<b>486.9390</b>	<b>0.0198</b>		<b>487.4345</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3964	3.7915	3.6277	4.8600e-003		0.2472	0.2472		0.2274	0.2274	0.0000	471.1413	471.1413	0.1524		474.9507
<b>Total</b>	<b>0.3964</b>	<b>3.7915</b>	<b>3.6277</b>	<b>4.8600e-003</b>		<b>0.2472</b>	<b>0.2472</b>		<b>0.2274</b>	<b>0.2274</b>	<b>0.0000</b>	<b>471.1413</b>	<b>471.1413</b>	<b>0.1524</b>		<b>474.9507</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.13 70-kV Substation Ground Grid Conduit Installation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0436	1.2847	0.3462	3.9300e-003	0.1083	4.8500e-003	0.1131	0.0312	4.6400e-003	0.0358		418.9268	418.9268	0.0179		419.3731
Worker	0.0334	0.0238	0.2485	6.8000e-004	0.0772	4.9000e-004	0.0776	0.0205	4.5000e-004	0.0209		68.0122	68.0122	1.9700e-003		68.0615
<b>Total</b>	<b>0.0770</b>	<b>1.3085</b>	<b>0.5947</b>	<b>4.6100e-003</b>	<b>0.1854</b>	<b>5.3400e-003</b>	<b>0.1908</b>	<b>0.0516</b>	<b>5.0900e-003</b>	<b>0.0567</b>		<b>486.9390</b>	<b>486.9390</b>	<b>0.0198</b>		<b>487.4345</b>

**3.14 230-kV Substation Ground Grid Conduit Installation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3639	3.3797	2.5990	3.3700e-003		0.2395	0.2395		0.2203	0.2203		326.9494	326.9494	0.1057		329.5930
<b>Total</b>	<b>0.3639</b>	<b>3.3797</b>	<b>2.5990</b>	<b>3.3700e-003</b>		<b>0.2395</b>	<b>0.2395</b>		<b>0.2203</b>	<b>0.2203</b>		<b>326.9494</b>	<b>326.9494</b>	<b>0.1057</b>		<b>329.5930</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.14 230-kV Substation Ground Grid Conduit Installation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0483	1.8230	0.4839	2.2400e-003	0.0251	2.2200e-003	0.0274	7.3000e-003	2.1200e-003	9.4300e-003		239.6258	239.6258	0.0227		240.1926
Worker	0.0351	0.0254	0.2648	7.4000e-004	0.0835	5.2000e-004	0.0841	0.0222	4.8000e-004	0.0226		73.4348	73.4348	2.1100e-003		73.4876
<b>Total</b>	<b>0.0834</b>	<b>1.8485</b>	<b>0.7487</b>	<b>2.9800e-003</b>	<b>0.1087</b>	<b>2.7400e-003</b>	<b>0.1114</b>	<b>0.0295</b>	<b>2.6000e-003</b>	<b>0.0321</b>		<b>313.0606</b>	<b>313.0606</b>	<b>0.0248</b>		<b>313.6802</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3639	3.3797	2.5990	3.3700e-003		0.2395	0.2395		0.2203	0.2203	0.0000	326.9494	326.9494	0.1057		329.5930
<b>Total</b>	<b>0.3639</b>	<b>3.3797</b>	<b>2.5990</b>	<b>3.3700e-003</b>		<b>0.2395</b>	<b>0.2395</b>		<b>0.2203</b>	<b>0.2203</b>	<b>0.0000</b>	<b>326.9494</b>	<b>326.9494</b>	<b>0.1057</b>		<b>329.5930</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.14 230-kV Substation Ground Grid Conduit Installation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0483	1.8230	0.4839	2.2400e-003	0.0251	2.2200e-003	0.0274	7.3000e-003	2.1200e-003	9.4300e-003		239.6258	239.6258	0.0227		240.1926
Worker	0.0351	0.0254	0.2648	7.4000e-004	0.0835	5.2000e-004	0.0841	0.0222	4.8000e-004	0.0226		73.4348	73.4348	2.1100e-003		73.4876
<b>Total</b>	<b>0.0834</b>	<b>1.8485</b>	<b>0.7487</b>	<b>2.9800e-003</b>	<b>0.1087</b>	<b>2.7400e-003</b>	<b>0.1114</b>	<b>0.0295</b>	<b>2.6000e-003</b>	<b>0.0321</b>		<b>313.0606</b>	<b>313.0606</b>	<b>0.0248</b>		<b>313.6802</b>

**3.15 230-kV Substation Steel Bus Erection - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5550	4.4273	4.1662	0.0145		0.1536	0.1536		0.1413	0.1413		1,399.0142	1,399.0142	0.4525		1,410.3260
<b>Total</b>	<b>0.5550</b>	<b>4.4273</b>	<b>4.1662</b>	<b>0.0145</b>		<b>0.1536</b>	<b>0.1536</b>		<b>0.1413</b>	<b>0.1413</b>		<b>1,399.0142</b>	<b>1,399.0142</b>	<b>0.4525</b>		<b>1,410.3260</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.15 230-kV Substation Steel Bus Erection - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0523	1.9434	0.5162	2.5800e-003	0.0340	2.6300e-003	0.0367	9.8700e-003	2.5100e-003	0.0124		275.4384	275.4384	0.0243		276.0463
Worker	0.0362	0.0264	0.2744	7.7000e-004	0.0873	5.4000e-004	0.0878	0.0232	5.0000e-004	0.0237		76.6109	76.6109	2.1900e-003		76.6658
<b>Total</b>	<b>0.0884</b>	<b>1.9698</b>	<b>0.7906</b>	<b>3.3500e-003</b>	<b>0.1213</b>	<b>3.1700e-003</b>	<b>0.1245</b>	<b>0.0330</b>	<b>3.0100e-003</b>	<b>0.0360</b>		<b>352.0493</b>	<b>352.0493</b>	<b>0.0265</b>		<b>352.7121</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5550	4.4273	4.1662	0.0145		0.1536	0.1536		0.1413	0.1413	0.0000	1,399.0142	1,399.0142	0.4525		1,410.3260
<b>Total</b>	<b>0.5550</b>	<b>4.4273</b>	<b>4.1662</b>	<b>0.0145</b>		<b>0.1536</b>	<b>0.1536</b>		<b>0.1413</b>	<b>0.1413</b>	<b>0.0000</b>	<b>1,399.0142</b>	<b>1,399.0142</b>	<b>0.4525</b>		<b>1,410.3260</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.15 230-kV Substation Steel Bus Erection - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0523	1.9434	0.5162	2.5800e-003	0.0340	2.6300e-003	0.0367	9.8700e-003	2.5100e-003	0.0124		275.4384	275.4384	0.0243		276.0463
Worker	0.0362	0.0264	0.2744	7.7000e-004	0.0873	5.4000e-004	0.0878	0.0232	5.0000e-004	0.0237		76.6109	76.6109	2.1900e-003		76.6658
<b>Total</b>	<b>0.0884</b>	<b>1.9698</b>	<b>0.7906</b>	<b>3.3500e-003</b>	<b>0.1213</b>	<b>3.1700e-003</b>	<b>0.1245</b>	<b>0.0330</b>	<b>3.0100e-003</b>	<b>0.0360</b>		<b>352.0493</b>	<b>352.0493</b>	<b>0.0265</b>		<b>352.7121</b>

**3.15 230-kV Substation Steel Bus Erection - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5294	3.9615	4.0945	0.0145		0.1358	0.1358		0.1250	0.1250		1,399.9174	1,399.9174	0.4528		1,411.2365
<b>Total</b>	<b>0.5294</b>	<b>3.9615</b>	<b>4.0945</b>	<b>0.0145</b>		<b>0.1358</b>	<b>0.1358</b>		<b>0.1250</b>	<b>0.1250</b>		<b>1,399.9174</b>	<b>1,399.9174</b>	<b>0.4528</b>		<b>1,411.2365</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.15 230-kV Substation Steel Bus Erection - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0406	1.7137	0.4549	2.5500e-003	0.0340	1.1600e-003	0.0352	9.8700e-003	1.1100e-003	0.0110		272.7425	272.7425	0.0206		273.2586
Worker	0.0339	0.0237	0.2510	7.4000e-004	0.0873	5.3000e-004	0.0878	0.0232	4.9000e-004	0.0236		73.7389	73.7389	1.9600e-003		73.7879
<b>Total</b>	<b>0.0745</b>	<b>1.7375</b>	<b>0.7059</b>	<b>3.2900e-003</b>	<b>0.1213</b>	<b>1.6900e-003</b>	<b>0.1230</b>	<b>0.0330</b>	<b>1.6000e-003</b>	<b>0.0346</b>		<b>346.4814</b>	<b>346.4814</b>	<b>0.0226</b>		<b>347.0465</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5294	3.9615	4.0945	0.0145		0.1358	0.1358		0.1250	0.1250	0.0000	1,399.9174	1,399.9174	0.4528		1,411.2365
<b>Total</b>	<b>0.5294</b>	<b>3.9615</b>	<b>4.0945</b>	<b>0.0145</b>		<b>0.1358</b>	<b>0.1358</b>		<b>0.1250</b>	<b>0.1250</b>	<b>0.0000</b>	<b>1,399.9174</b>	<b>1,399.9174</b>	<b>0.4528</b>		<b>1,411.2365</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.15 230-kV Substation Steel Bus Erection - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0406	1.7137	0.4549	2.5500e-003	0.0340	1.1600e-003	0.0352	9.8700e-003	1.1100e-003	0.0110		272.7425	272.7425	0.0206		273.2586
Worker	0.0339	0.0237	0.2510	7.4000e-004	0.0873	5.3000e-004	0.0878	0.0232	4.9000e-004	0.0236		73.7389	73.7389	1.9600e-003		73.7879
<b>Total</b>	<b>0.0745</b>	<b>1.7375</b>	<b>0.7059</b>	<b>3.2900e-003</b>	<b>0.1213</b>	<b>1.6900e-003</b>	<b>0.1230</b>	<b>0.0330</b>	<b>1.6000e-003</b>	<b>0.0346</b>		<b>346.4814</b>	<b>346.4814</b>	<b>0.0226</b>		<b>347.0465</b>

**3.16 230-kV Substation Install Yard Rock - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7475	6.1779	5.9324	0.0191		0.2256	0.2256		0.2075	0.2075		1,849.2207	1,849.2207	0.5981		1,864.1726
<b>Total</b>	<b>0.7475</b>	<b>6.1779</b>	<b>5.9324</b>	<b>0.0191</b>		<b>0.2256</b>	<b>0.2256</b>		<b>0.2075</b>	<b>0.2075</b>		<b>1,849.2207</b>	<b>1,849.2207</b>	<b>0.5981</b>		<b>1,864.1726</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.16 230-kV Substation Install Yard Rock - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1668	5.1391	1.3808	0.0139	0.3619	0.0168	0.3787	0.1042	0.0161	0.1202		1,479.0425	1,479.0425	0.0699		1,480.7909
Worker	0.0520	0.0375	0.3909	1.0800e-003	0.1228	7.7000e-004	0.1236	0.0326	7.1000e-004	0.0333		108.0607	108.0607	3.1100e-003		108.1385
<b>Total</b>	<b>0.2188</b>	<b>5.1766</b>	<b>1.7717</b>	<b>0.0150</b>	<b>0.4847</b>	<b>0.0176</b>	<b>0.5023</b>	<b>0.1367</b>	<b>0.0168</b>	<b>0.1535</b>		<b>1,587.1032</b>	<b>1,587.1032</b>	<b>0.0730</b>		<b>1,588.9294</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7475	6.1779	5.9324	0.0191		0.2256	0.2256		0.2075	0.2075	0.0000	1,849.2207	1,849.2207	0.5981		1,864.1726
<b>Total</b>	<b>0.7475</b>	<b>6.1779</b>	<b>5.9324</b>	<b>0.0191</b>		<b>0.2256</b>	<b>0.2256</b>		<b>0.2075</b>	<b>0.2075</b>	<b>0.0000</b>	<b>1,849.2207</b>	<b>1,849.2207</b>	<b>0.5981</b>		<b>1,864.1726</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.16 230-kV Substation Install Yard Rock - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1668	5.1391	1.3808	0.0139	0.3619	0.0168	0.3787	0.1042	0.0161	0.1202		1,479.0425	1,479.0425	0.0699		1,480.7909
Worker	0.0520	0.0375	0.3909	1.0800e-003	0.1228	7.7000e-004	0.1236	0.0326	7.1000e-004	0.0333		108.0607	108.0607	3.1100e-003		108.1385
<b>Total</b>	<b>0.2188</b>	<b>5.1766</b>	<b>1.7717</b>	<b>0.0150</b>	<b>0.4847</b>	<b>0.0176</b>	<b>0.5023</b>	<b>0.1367</b>	<b>0.0168</b>	<b>0.1535</b>		<b>1,587.1032</b>	<b>1,587.1032</b>	<b>0.0730</b>		<b>1,588.9294</b>

**3.16 230-kV Substation Install Yard Rock - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7112	5.5407	5.8424	0.0191		0.1978	0.1978		0.1820	0.1820		1,850.4684	1,850.4684	0.5985		1,865.4304
<b>Total</b>	<b>0.7112</b>	<b>5.5407</b>	<b>5.8424</b>	<b>0.0191</b>		<b>0.1978</b>	<b>0.1978</b>		<b>0.1820</b>	<b>0.1820</b>		<b>1,850.4684</b>	<b>1,850.4684</b>	<b>0.5985</b>		<b>1,865.4304</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.16 230-kV Substation Install Yard Rock - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1262	4.0860	1.2198	0.0136	0.3620	7.9100e-003	0.3699	0.1042	7.5600e-003	0.1117		1,452.5337	1,452.5337	0.0639		1,454.1300
Worker	0.0487	0.0337	0.3574	1.0400e-003	0.1228	7.5000e-004	0.1236	0.0326	6.9000e-004	0.0333		104.0104	104.0104	2.7800e-003		104.0800
<b>Total</b>	<b>0.1750</b>	<b>4.1198</b>	<b>1.5773</b>	<b>0.0146</b>	<b>0.4848</b>	<b>8.6600e-003</b>	<b>0.4935</b>	<b>0.1368</b>	<b>8.2500e-003</b>	<b>0.1450</b>		<b>1,556.5442</b>	<b>1,556.5442</b>	<b>0.0666</b>		<b>1,558.2099</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7112	5.5407	5.8424	0.0191		0.1978	0.1978		0.1820	0.1820	0.0000	1,850.4684	1,850.4684	0.5985		1,865.4304
<b>Total</b>	<b>0.7112</b>	<b>5.5407</b>	<b>5.8424</b>	<b>0.0191</b>		<b>0.1978</b>	<b>0.1978</b>		<b>0.1820</b>	<b>0.1820</b>	<b>0.0000</b>	<b>1,850.4684</b>	<b>1,850.4684</b>	<b>0.5985</b>		<b>1,865.4304</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.16 230-kV Substation Install Yard Rock - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1262	4.0860	1.2198	0.0136	0.3620	7.9100e-003	0.3699	0.1042	7.5600e-003	0.1117		1,452.5337	1,452.5337	0.0639		1,454.1300
Worker	0.0487	0.0337	0.3574	1.0400e-003	0.1228	7.5000e-004	0.1236	0.0326	6.9000e-004	0.0333		104.0104	104.0104	2.7800e-003		104.0800
<b>Total</b>	<b>0.1750</b>	<b>4.1198</b>	<b>1.5773</b>	<b>0.0146</b>	<b>0.4848</b>	<b>8.6600e-003</b>	<b>0.4935</b>	<b>0.1368</b>	<b>8.2500e-003</b>	<b>0.1450</b>		<b>1,556.5442</b>	<b>1,556.5442</b>	<b>0.0666</b>		<b>1,558.2099</b>

**3.17 70-kV Substation Steel Bus Erection - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8239	6.4014	7.0821	0.0231		0.2117	0.2117		0.1947	0.1947		2,239.9099	2,239.9099	0.7244		2,258.0207
<b>Total</b>	<b>0.8239</b>	<b>6.4014</b>	<b>7.0821</b>	<b>0.0231</b>		<b>0.2117</b>	<b>0.2117</b>		<b>0.1947</b>	<b>0.1947</b>		<b>2,239.9099</b>	<b>2,239.9099</b>	<b>0.7244</b>		<b>2,258.0207</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.17 70-kV Substation Steel Bus Erection - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0328	0.9923	0.3061	3.8500e-003	0.1083	2.2900e-003	0.1106	0.0312	2.1900e-003	0.0334		411.0301	411.0301	0.0166		411.4443
Worker	0.0334	0.0222	0.2372	6.7000e-004	0.0782	4.9000e-004	0.0787	0.0208	4.6000e-004	0.0212		66.7194	66.7194	1.8200e-003		66.7650
<b>Total</b>	<b>0.0662</b>	<b>1.0145</b>	<b>0.5432</b>	<b>4.5200e-003</b>	<b>0.1865</b>	<b>2.7800e-003</b>	<b>0.1893</b>	<b>0.0519</b>	<b>2.6500e-003</b>	<b>0.0546</b>		<b>477.7496</b>	<b>477.7496</b>	<b>0.0184</b>		<b>478.2093</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8239	6.4014	7.0821	0.0231		0.2117	0.2117		0.1947	0.1947	0.0000	2,239.9099	2,239.9099	0.7244		2,258.0207
<b>Total</b>	<b>0.8239</b>	<b>6.4014</b>	<b>7.0821</b>	<b>0.0231</b>		<b>0.2117</b>	<b>0.2117</b>		<b>0.1947</b>	<b>0.1947</b>	<b>0.0000</b>	<b>2,239.9099</b>	<b>2,239.9099</b>	<b>0.7244</b>		<b>2,258.0207</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.17 70-kV Substation Steel Bus Erection - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0328	0.9923	0.3061	3.8500e-003	0.1083	2.2900e-003	0.1106	0.0312	2.1900e-003	0.0334		411.0301	411.0301	0.0166		411.4443
Worker	0.0334	0.0222	0.2372	6.7000e-004	0.0782	4.9000e-004	0.0787	0.0208	4.6000e-004	0.0212		66.7194	66.7194	1.8200e-003		66.7650
<b>Total</b>	<b>0.0662</b>	<b>1.0145</b>	<b>0.5432</b>	<b>4.5200e-003</b>	<b>0.1865</b>	<b>2.7800e-003</b>	<b>0.1893</b>	<b>0.0519</b>	<b>2.6500e-003</b>	<b>0.0546</b>		<b>477.7496</b>	<b>477.7496</b>	<b>0.0184</b>		<b>478.2093</b>

**3.18 230-kV Substation Transformer & Equip Delivery & Installation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8288	13.5256	13.6033	0.0467		0.5180	0.5180		0.4830	0.4830		4,507.8392	4,507.8392	1.3491		4,541.5672
<b>Total</b>	<b>1.8288</b>	<b>13.5256</b>	<b>13.6033</b>	<b>0.0467</b>		<b>0.5180</b>	<b>0.5180</b>		<b>0.4830</b>	<b>0.4830</b>		<b>4,507.8392</b>	<b>4,507.8392</b>	<b>1.3491</b>		<b>4,541.5672</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.18 230-kV Substation Transformer & Equip Delivery & Installation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0403	1.7070	0.4525	2.5000e-003	0.0327	1.1400e-003	0.0338	9.4700e-003	1.0900e-003	0.0106		268.0927	268.0927	0.0205		268.6051
Worker	0.0471	0.0323	0.3429	9.9000e-004	0.1167	7.2000e-004	0.1174	0.0310	6.6000e-004	0.0316		98.9781	98.9781	2.6600e-003		99.0446
<b>Total</b>	<b>0.0874</b>	<b>1.7393</b>	<b>0.7955</b>	<b>3.4900e-003</b>	<b>0.1493</b>	<b>1.8600e-003</b>	<b>0.1512</b>	<b>0.0404</b>	<b>1.7500e-003</b>	<b>0.0422</b>		<b>367.0708</b>	<b>367.0708</b>	<b>0.0232</b>		<b>367.6497</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8288	13.5256	13.6033	0.0467		0.5180	0.5180		0.4830	0.4830	0.0000	4,507.8392	4,507.8392	1.3491		4,541.5671
<b>Total</b>	<b>1.8288</b>	<b>13.5256</b>	<b>13.6033</b>	<b>0.0467</b>		<b>0.5180</b>	<b>0.5180</b>		<b>0.4830</b>	<b>0.4830</b>	<b>0.0000</b>	<b>4,507.8392</b>	<b>4,507.8392</b>	<b>1.3491</b>		<b>4,541.5671</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.18 230-kV Substation Transformer & Equip Delivery & Installation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0403	1.7070	0.4525	2.5000e-003	0.0327	1.1400e-003	0.0338	9.4700e-003	1.0900e-003	0.0106		268.0927	268.0927	0.0205		268.6051
Worker	0.0471	0.0323	0.3429	9.9000e-004	0.1167	7.2000e-004	0.1174	0.0310	6.6000e-004	0.0316		98.9781	98.9781	2.6600e-003		99.0446
<b>Total</b>	<b>0.0874</b>	<b>1.7393</b>	<b>0.7955</b>	<b>3.4900e-003</b>	<b>0.1493</b>	<b>1.8600e-003</b>	<b>0.1512</b>	<b>0.0404</b>	<b>1.7500e-003</b>	<b>0.0422</b>		<b>367.0708</b>	<b>367.0708</b>	<b>0.0232</b>		<b>367.6497</b>

**3.19 230-kV Substation Control Enclosure Delivery and Install - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2636	2.8616	1.3758	4.3300e-003		0.1195	0.1195		0.1099	0.1099		419.1144	419.1144	0.1356		422.5032
<b>Total</b>	<b>0.2636</b>	<b>2.8616</b>	<b>1.3758</b>	<b>4.3300e-003</b>		<b>0.1195</b>	<b>0.1195</b>		<b>0.1099</b>	<b>0.1099</b>		<b>419.1144</b>	<b>419.1144</b>	<b>0.1356</b>		<b>422.5032</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.19 230-kV Substation Control Enclosure Delivery and Install - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.2900e-003	0.2205	0.0680	8.6000e-004	0.0241	5.1000e-004	0.0246	6.9200e-003	4.9000e-004	7.4100e-003		91.3400	91.3400	3.6800e-003		91.4321
Worker	0.0349	0.0247	0.2604	7.7000e-004	0.0913	5.5000e-004	0.0918	0.0242	5.1000e-004	0.0247		77.0193	77.0193	2.0400e-003		77.0703
<b>Total</b>	<b>0.0422</b>	<b>0.2452</b>	<b>0.3284</b>	<b>1.6300e-003</b>	<b>0.1154</b>	<b>1.0600e-003</b>	<b>0.1164</b>	<b>0.0311</b>	<b>1.0000e-003</b>	<b>0.0321</b>		<b>168.3593</b>	<b>168.3593</b>	<b>5.7200e-003</b>		<b>168.5023</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2636	2.8616	1.3758	4.3300e-003		0.1195	0.1195		0.1099	0.1099	0.0000	419.1144	419.1144	0.1356		422.5032
<b>Total</b>	<b>0.2636</b>	<b>2.8616</b>	<b>1.3758</b>	<b>4.3300e-003</b>		<b>0.1195</b>	<b>0.1195</b>		<b>0.1099</b>	<b>0.1099</b>	<b>0.0000</b>	<b>419.1144</b>	<b>419.1144</b>	<b>0.1356</b>		<b>422.5032</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.19 230-kV Substation Control Enclosure Delivery and Install - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.2900e-003	0.2205	0.0680	8.6000e-004	0.0241	5.1000e-004	0.0246	6.9200e-003	4.9000e-004	7.4100e-003		91.3400	91.3400	3.6800e-003		91.4321
Worker	0.0349	0.0247	0.2604	7.7000e-004	0.0913	5.5000e-004	0.0918	0.0242	5.1000e-004	0.0247		77.0193	77.0193	2.0400e-003		77.0703
<b>Total</b>	<b>0.0422</b>	<b>0.2452</b>	<b>0.3284</b>	<b>1.6300e-003</b>	<b>0.1154</b>	<b>1.0600e-003</b>	<b>0.1164</b>	<b>0.0311</b>	<b>1.0000e-003</b>	<b>0.0321</b>		<b>168.3593</b>	<b>168.3593</b>	<b>5.7200e-003</b>		<b>168.5023</b>

**3.20 230-kV Substation Remaining Equipment Delivery and Install - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3779	2.6759	2.4664	9.9200e-003		0.0968	0.0968		0.0890	0.0890		959.9164	959.9164	0.3105		967.6778
<b>Total</b>	<b>0.3779</b>	<b>2.6759</b>	<b>2.4664</b>	<b>9.9200e-003</b>		<b>0.0968</b>	<b>0.0968</b>		<b>0.0890</b>	<b>0.0890</b>		<b>959.9164</b>	<b>959.9164</b>	<b>0.3105</b>		<b>967.6778</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.20 230-kV Substation Remaining Equipment Delivery and Install - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0387	1.6171	0.4309	2.4900e-003	0.0354	1.1600e-003	0.0366	0.0103	1.1100e-003	0.0114		266.7112	266.7112	0.0197		267.2025
Worker	0.0262	0.0185	0.1953	5.8000e-004	0.0685	4.1000e-004	0.0689	0.0182	3.8000e-004	0.0185		57.7645	57.7645	1.5300e-003		57.8027
<b>Total</b>	<b>0.0649</b>	<b>1.6356</b>	<b>0.6262</b>	<b>3.0700e-003</b>	<b>0.1039</b>	<b>1.5700e-003</b>	<b>0.1054</b>	<b>0.0284</b>	<b>1.4900e-003</b>	<b>0.0299</b>		<b>324.4757</b>	<b>324.4757</b>	<b>0.0212</b>		<b>325.0051</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3779	2.6759	2.4664	9.9200e-003		0.0968	0.0968		0.0890	0.0890	0.0000	959.9164	959.9164	0.3105		967.6778
<b>Total</b>	<b>0.3779</b>	<b>2.6759</b>	<b>2.4664</b>	<b>9.9200e-003</b>		<b>0.0968</b>	<b>0.0968</b>		<b>0.0890</b>	<b>0.0890</b>	<b>0.0000</b>	<b>959.9164</b>	<b>959.9164</b>	<b>0.3105</b>		<b>967.6778</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.20 230-kV Substation Remaining Equipment Delivery and Install - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0387	1.6171	0.4309	2.4900e-003	0.0354	1.1600e-003	0.0366	0.0103	1.1100e-003	0.0114		266.7112	266.7112	0.0197		267.2025
Worker	0.0262	0.0185	0.1953	5.8000e-004	0.0685	4.1000e-004	0.0689	0.0182	3.8000e-004	0.0185		57.7645	57.7645	1.5300e-003		57.8027
<b>Total</b>	<b>0.0649</b>	<b>1.6356</b>	<b>0.6262</b>	<b>3.0700e-003</b>	<b>0.1039</b>	<b>1.5700e-003</b>	<b>0.1054</b>	<b>0.0284</b>	<b>1.4900e-003</b>	<b>0.0299</b>		<b>324.4757</b>	<b>324.4757</b>	<b>0.0212</b>		<b>325.0051</b>

**3.21 230-kV Transmission Conductor - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7984	15.7207	10.7044	0.0394		0.6165	0.6165		0.5672	0.5672		3,817.1203	3,817.1203	1.2345		3,847.9837
<b>Total</b>	<b>1.7984</b>	<b>15.7207</b>	<b>10.7044</b>	<b>0.0394</b>		<b>0.6165</b>	<b>0.6165</b>		<b>0.5672</b>	<b>0.5672</b>		<b>3,817.1203</b>	<b>3,817.1203</b>	<b>1.2345</b>		<b>3,847.9837</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.21 230-kV Transmission Conductor - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0401	1.2128	0.3741	4.7100e-003	0.1324	2.8000e-003	0.1352	0.0381	2.6800e-003	0.0408		502.3702	502.3702	0.0203		502.8764
Worker	0.1106	0.0781	0.8246	2.4500e-003	0.2891	1.7500e-003	0.2908	0.0767	1.6100e-003	0.0783		243.8943	243.8943	6.4600e-003		244.0558
<b>Total</b>	<b>0.1507</b>	<b>1.2908</b>	<b>1.1986</b>	<b>7.1600e-003</b>	<b>0.4214</b>	<b>4.5500e-003</b>	<b>0.4260</b>	<b>0.1148</b>	<b>4.2900e-003</b>	<b>0.1191</b>		<b>746.2645</b>	<b>746.2645</b>	<b>0.0267</b>		<b>746.9322</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7984	15.7207	10.7044	0.0394		0.6165	0.6165		0.5672	0.5672	0.0000	3,817.1203	3,817.1203	1.2345		3,847.9837
<b>Total</b>	<b>1.7984</b>	<b>15.7207</b>	<b>10.7044</b>	<b>0.0394</b>		<b>0.6165</b>	<b>0.6165</b>		<b>0.5672</b>	<b>0.5672</b>	<b>0.0000</b>	<b>3,817.1203</b>	<b>3,817.1203</b>	<b>1.2345</b>		<b>3,847.9837</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.21 230-kV Transmission Conductor - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0401	1.2128	0.3741	4.7100e-003	0.1324	2.8000e-003	0.1352	0.0381	2.6800e-003	0.0408		502.3702	502.3702	0.0203		502.8764
Worker	0.1106	0.0781	0.8246	2.4500e-003	0.2891	1.7500e-003	0.2908	0.0767	1.6100e-003	0.0783		243.8943	243.8943	6.4600e-003		244.0558
<b>Total</b>	<b>0.1507</b>	<b>1.2908</b>	<b>1.1986</b>	<b>7.1600e-003</b>	<b>0.4214</b>	<b>4.5500e-003</b>	<b>0.4260</b>	<b>0.1148</b>	<b>4.2900e-003</b>	<b>0.1191</b>		<b>746.2645</b>	<b>746.2645</b>	<b>0.0267</b>		<b>746.9322</b>

**3.22 70-kV Substation Equip Delivery & Installation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3679	2.8885	3.2533	0.0104		0.0945	0.0945		0.0870	0.0870		1,007.9647	1,007.9647	0.3260		1,016.1146
<b>Total</b>	<b>0.3679</b>	<b>2.8885</b>	<b>3.2533</b>	<b>0.0104</b>		<b>0.0945</b>	<b>0.0945</b>		<b>0.0870</b>	<b>0.0870</b>		<b>1,007.9647</b>	<b>1,007.9647</b>	<b>0.3260</b>		<b>1,016.1146</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.22 70-kV Substation Equip Delivery & Installation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0437	1.3230	0.4081	5.1300e-003	0.1444	3.0600e-003	0.1475	0.0415	2.9200e-003	0.0445		548.0402	548.0402	0.0221		548.5924
Worker	0.0392	0.0264	0.2808	8.0000e-004	0.0935	5.9000e-004	0.0941	0.0248	5.4000e-004	0.0254		79.6305	79.6305	2.1600e-003		79.6846
<b>Total</b>	<b>0.0829</b>	<b>1.3494</b>	<b>0.6888</b>	<b>5.9300e-003</b>	<b>0.2379</b>	<b>3.6500e-003</b>	<b>0.2416</b>	<b>0.0664</b>	<b>3.4600e-003</b>	<b>0.0698</b>		<b>627.6707</b>	<b>627.6707</b>	<b>0.0243</b>		<b>628.2771</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3679	2.8885	3.2533	0.0104		0.0945	0.0945		0.0870	0.0870	0.0000	1,007.9647	1,007.9647	0.3260		1,016.1146
<b>Total</b>	<b>0.3679</b>	<b>2.8885</b>	<b>3.2533</b>	<b>0.0104</b>		<b>0.0945</b>	<b>0.0945</b>		<b>0.0870</b>	<b>0.0870</b>	<b>0.0000</b>	<b>1,007.9647</b>	<b>1,007.9647</b>	<b>0.3260</b>		<b>1,016.1146</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.22 70-kV Substation Equip Delivery & Installation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0437	1.3230	0.4081	5.1300e-003	0.1444	3.0600e-003	0.1475	0.0415	2.9200e-003	0.0445		548.0402	548.0402	0.0221		548.5924
Worker	0.0392	0.0264	0.2808	8.0000e-004	0.0935	5.9000e-004	0.0941	0.0248	5.4000e-004	0.0254		79.6305	79.6305	2.1600e-003		79.6846
<b>Total</b>	<b>0.0829</b>	<b>1.3494</b>	<b>0.6888</b>	<b>5.9300e-003</b>	<b>0.2379</b>	<b>3.6500e-003</b>	<b>0.2416</b>	<b>0.0664</b>	<b>3.4600e-003</b>	<b>0.0698</b>		<b>627.6707</b>	<b>627.6707</b>	<b>0.0243</b>		<b>628.2771</b>

**3.23 70-kV Substation Control Enclosure Delivery and Install - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.23 70-kV Substation Control Enclosure Delivery and Install - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.2900e-003	0.2205	0.0680	8.6000e-004	0.0241	5.1000e-004	0.0246	6.9200e-003	4.9000e-004	7.4100e-003		91.3400	91.3400	3.6800e-003		91.4321
Worker	0.0331	0.0230	0.2439	7.2000e-004	0.0843	5.1000e-004	0.0848	0.0224	4.7000e-004	0.0228		71.2787	71.2787	1.9000e-003		71.3262
<b>Total</b>	<b>0.0404</b>	<b>0.2435</b>	<b>0.3119</b>	<b>1.5800e-003</b>	<b>0.1083</b>	<b>1.0200e-003</b>	<b>0.1094</b>	<b>0.0293</b>	<b>9.6000e-004</b>	<b>0.0302</b>		<b>162.6187</b>	<b>162.6187</b>	<b>5.5800e-003</b>		<b>162.7583</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.23 70-kV Substation Control Enclosure Delivery and Install - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.2900e-003	0.2205	0.0680	8.6000e-004	0.0241	5.1000e-004	0.0246	6.9200e-003	4.9000e-004	7.4100e-003		91.3400	91.3400	3.6800e-003		91.4321
Worker	0.0331	0.0230	0.2439	7.2000e-004	0.0843	5.1000e-004	0.0848	0.0224	4.7000e-004	0.0228		71.2787	71.2787	1.9000e-003		71.3262
<b>Total</b>	<b>0.0404</b>	<b>0.2435</b>	<b>0.3119</b>	<b>1.5800e-003</b>	<b>0.1083</b>	<b>1.0200e-003</b>	<b>0.1094</b>	<b>0.0293</b>	<b>9.6000e-004</b>	<b>0.0302</b>		<b>162.6187</b>	<b>162.6187</b>	<b>5.5800e-003</b>		<b>162.7583</b>

**3.24 230-kV Transmission Site Clean-up and Restoration - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4591	5.4209	2.8083	8.1800e-003		0.1887	0.1887		0.1736	0.1736		791.6434	791.6434	0.2560		798.0443
<b>Total</b>	<b>0.4591</b>	<b>5.4209</b>	<b>2.8083</b>	<b>8.1800e-003</b>		<b>0.1887</b>	<b>0.1887</b>		<b>0.1736</b>	<b>0.1736</b>		<b>791.6434</b>	<b>791.6434</b>	<b>0.2560</b>		<b>798.0443</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.24 230-kV Transmission Site Clean-up and Restoration - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0328	0.9923	0.3061	3.8500e-003	0.1083	2.2900e-003	0.1106	0.0312	2.1900e-003	0.0334		411.0301	411.0301	0.0166		411.4443
Worker	0.0408	0.0288	0.3038	9.0000e-004	0.1065	6.4000e-004	0.1071	0.0283	5.9000e-004	0.0288		89.8558	89.8558	2.3800e-003		89.9153
<b>Total</b>	<b>0.0736</b>	<b>1.0210</b>	<b>0.6098</b>	<b>4.7500e-003</b>	<b>0.2148</b>	<b>2.9300e-003</b>	<b>0.2177</b>	<b>0.0594</b>	<b>2.7800e-003</b>	<b>0.0622</b>		<b>500.8859</b>	<b>500.8859</b>	<b>0.0190</b>		<b>501.3596</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4591	5.4209	2.8083	8.1800e-003		0.1887	0.1887		0.1736	0.1736	0.0000	791.6434	791.6434	0.2560		798.0443
<b>Total</b>	<b>0.4591</b>	<b>5.4209</b>	<b>2.8083</b>	<b>8.1800e-003</b>		<b>0.1887</b>	<b>0.1887</b>		<b>0.1736</b>	<b>0.1736</b>	<b>0.0000</b>	<b>791.6434</b>	<b>791.6434</b>	<b>0.2560</b>		<b>798.0443</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.24 230-kV Transmission Site Clean-up and Restoration - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0328	0.9923	0.3061	3.8500e-003	0.1083	2.2900e-003	0.1106	0.0312	2.1900e-003	0.0334		411.0301	411.0301	0.0166		411.4443
Worker	0.0408	0.0288	0.3038	9.0000e-004	0.1065	6.4000e-004	0.1071	0.0283	5.9000e-004	0.0288		89.8558	89.8558	2.3800e-003		89.9153
<b>Total</b>	<b>0.0736</b>	<b>1.0210</b>	<b>0.6098</b>	<b>4.7500e-003</b>	<b>0.2148</b>	<b>2.9300e-003</b>	<b>0.2177</b>	<b>0.0594</b>	<b>2.7800e-003</b>	<b>0.0622</b>		<b>500.8859</b>	<b>500.8859</b>	<b>0.0190</b>		<b>501.3596</b>

**3.25 230-kV Substation Cable Installation and Termination - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0341	0.5248	1.0747	1.6500e-003		9.0700e-003	9.0700e-003		8.3400e-003	8.3400e-003		160.0386	160.0386	0.0518		161.3326
<b>Total</b>	<b>0.0341</b>	<b>0.5248</b>	<b>1.0747</b>	<b>1.6500e-003</b>		<b>9.0700e-003</b>	<b>9.0700e-003</b>		<b>8.3400e-003</b>	<b>8.3400e-003</b>		<b>160.0386</b>	<b>160.0386</b>	<b>0.0518</b>		<b>161.3326</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.25 230-kV Substation Cable Installation and Termination - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0109	0.3308	0.1020	1.2800e-003	0.0361	7.6000e-004	0.0369	0.0104	7.3000e-004	0.0111		137.0100	137.0100	5.5200e-003		137.1481
Worker	0.0291	0.0205	0.2170	6.4000e-004	0.0761	4.6000e-004	0.0765	0.0202	4.2000e-004	0.0206		64.1827	64.1827	1.7000e-003		64.2252
<b>Total</b>	<b>0.0400</b>	<b>0.3513</b>	<b>0.3190</b>	<b>1.9200e-003</b>	<b>0.1122</b>	<b>1.2200e-003</b>	<b>0.1134</b>	<b>0.0306</b>	<b>1.1500e-003</b>	<b>0.0317</b>		<b>201.1928</b>	<b>201.1928</b>	<b>7.2200e-003</b>		<b>201.3733</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0341	0.5248	1.0747	1.6500e-003		9.0700e-003	9.0700e-003		8.3400e-003	8.3400e-003	0.0000	160.0386	160.0386	0.0518		161.3326
<b>Total</b>	<b>0.0341</b>	<b>0.5248</b>	<b>1.0747</b>	<b>1.6500e-003</b>		<b>9.0700e-003</b>	<b>9.0700e-003</b>		<b>8.3400e-003</b>	<b>8.3400e-003</b>	<b>0.0000</b>	<b>160.0386</b>	<b>160.0386</b>	<b>0.0518</b>		<b>161.3326</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.25 230-kV Substation Cable Installation and Termination - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0109	0.3308	0.1020	1.2800e-003	0.0361	7.6000e-004	0.0369	0.0104	7.3000e-004	0.0111		137.0100	137.0100	5.5200e-003		137.1481
Worker	0.0291	0.0205	0.2170	6.4000e-004	0.0761	4.6000e-004	0.0765	0.0202	4.2000e-004	0.0206		64.1827	64.1827	1.7000e-003		64.2252
<b>Total</b>	<b>0.0400</b>	<b>0.3513</b>	<b>0.3190</b>	<b>1.9200e-003</b>	<b>0.1122</b>	<b>1.2200e-003</b>	<b>0.1134</b>	<b>0.0306</b>	<b>1.1500e-003</b>	<b>0.0317</b>		<b>201.1928</b>	<b>201.1928</b>	<b>7.2200e-003</b>		<b>201.3733</b>

**3.26 230-kV Substation Testing and Commissioning - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.26 230-kV Substation Testing and Commissioning - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0947	2.8665	0.8841	0.0111	0.3129	6.6200e-003	0.3195	0.0900	6.3400e-003	0.0963		1,187.4204	1,187.4204	0.0479		1,188.6170
Worker	0.0273	0.0179	0.1915	5.3000e-004	0.0620	4.0000e-004	0.0624	0.0165	3.7000e-004	0.0168		53.0877	53.0877	1.4600e-003		53.1242
<b>Total</b>	<b>0.1220</b>	<b>2.8844</b>	<b>1.0756</b>	<b>0.0117</b>	<b>0.3749</b>	<b>7.0200e-003</b>	<b>0.3819</b>	<b>0.1065</b>	<b>6.7100e-003</b>	<b>0.1132</b>		<b>1,240.5080</b>	<b>1,240.5080</b>	<b>0.0493</b>		<b>1,241.7412</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.26 230-kV Substation Testing and Commissioning - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0947	2.8665	0.8841	0.0111	0.3129	6.6200e-003	0.3195	0.0900	6.3400e-003	0.0963		1,187.4204	1,187.4204	0.0479		1,188.6170
Worker	0.0273	0.0179	0.1915	5.3000e-004	0.0620	4.0000e-004	0.0624	0.0165	3.7000e-004	0.0168		53.0877	53.0877	1.4600e-003		53.1242
<b>Total</b>	<b>0.1220</b>	<b>2.8844</b>	<b>1.0756</b>	<b>0.0117</b>	<b>0.3749</b>	<b>7.0200e-003</b>	<b>0.3819</b>	<b>0.1065</b>	<b>6.7100e-003</b>	<b>0.1132</b>		<b>1,240.5080</b>	<b>1,240.5080</b>	<b>0.0493</b>		<b>1,241.7412</b>

**3.27 70-kV Substation Cable Installation and Termination - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.27 70-kV Substation Cable Installation and Termination - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0109	0.3308	0.1020	1.2800e-003	0.0361	7.6000e-004	0.0369	0.0104	7.3000e-004	0.0111		137.0100	137.0100	5.5200e-003		137.1481
Worker	0.0271	0.0178	0.1900	5.3000e-004	0.0614	3.9000e-004	0.0618	0.0163	3.6000e-004	0.0167		52.5658	52.5658	1.4500e-003		52.6020
<b>Total</b>	<b>0.0381</b>	<b>0.3485</b>	<b>0.2920</b>	<b>1.8100e-003</b>	<b>0.0975</b>	<b>1.1500e-003</b>	<b>0.0987</b>	<b>0.0267</b>	<b>1.0900e-003</b>	<b>0.0278</b>		<b>189.5758</b>	<b>189.5758</b>	<b>6.9700e-003</b>		<b>189.7501</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.27 70-kV Substation Cable Installation and Termination - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0109	0.3308	0.1020	1.2800e-003	0.0361	7.6000e-004	0.0369	0.0104	7.3000e-004	0.0111		137.0100	137.0100	5.5200e-003		137.1481
Worker	0.0271	0.0178	0.1900	5.3000e-004	0.0614	3.9000e-004	0.0618	0.0163	3.6000e-004	0.0167		52.5658	52.5658	1.4500e-003		52.6020
<b>Total</b>	<b>0.0381</b>	<b>0.3485</b>	<b>0.2920</b>	<b>1.8100e-003</b>	<b>0.0975</b>	<b>1.1500e-003</b>	<b>0.0987</b>	<b>0.0267</b>	<b>1.0900e-003</b>	<b>0.0278</b>		<b>189.5758</b>	<b>189.5758</b>	<b>6.9700e-003</b>		<b>189.7501</b>

**3.28 70-kV Power Line Site Development Mobilization - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	0.6509	7.7474	3.6546	0.0115		0.2640	0.2640		0.2429	0.2429		1,112.0710	1,112.0710	0.3597		1,121.0627
<b>Total</b>	<b>0.6509</b>	<b>7.7474</b>	<b>3.6546</b>	<b>0.0115</b>	<b>1.5908</b>	<b>0.2640</b>	<b>1.8548</b>	<b>0.1718</b>	<b>0.2429</b>	<b>0.4147</b>		<b>1,112.0710</b>	<b>1,112.0710</b>	<b>0.3597</b>		<b>1,121.0627</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.28 70-kV Power Line Site Development Mobilization - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0364	1.1025	0.3401	4.2800e-003	0.1203	2.5500e-003	0.1229	0.0346	2.4400e-003	0.0371		456.7001	456.7001	0.0184		457.1604
Worker	0.0530	0.0365	0.3868	1.1200e-003	0.1321	8.1000e-004	0.1329	0.0350	7.5000e-004	0.0358		111.9637	111.9637	3.0000e-003		112.0388
<b>Total</b>	<b>0.0894</b>	<b>1.1390</b>	<b>0.7268</b>	<b>5.4000e-003</b>	<b>0.2524</b>	<b>3.3600e-003</b>	<b>0.2558</b>	<b>0.0697</b>	<b>3.1900e-003</b>	<b>0.0729</b>		<b>568.6639</b>	<b>568.6639</b>	<b>0.0214</b>		<b>569.1992</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6204	0.0000	0.6204	0.0670	0.0000	0.0670			0.0000			0.0000
Off-Road	0.6509	7.7474	3.6546	0.0115		0.2640	0.2640		0.2429	0.2429	0.0000	1,112.0710	1,112.0710	0.3597		1,121.0626
<b>Total</b>	<b>0.6509</b>	<b>7.7474</b>	<b>3.6546</b>	<b>0.0115</b>	<b>0.6204</b>	<b>0.2640</b>	<b>0.8844</b>	<b>0.0670</b>	<b>0.2429</b>	<b>0.3099</b>	<b>0.0000</b>	<b>1,112.0710</b>	<b>1,112.0710</b>	<b>0.3597</b>		<b>1,121.0626</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.28 70-kV Power Line Site Development Mobilization - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0364	1.1025	0.3401	4.2800e-003	0.1203	2.5500e-003	0.1229	0.0346	2.4400e-003	0.0371		456.7001	456.7001	0.0184		457.1604
Worker	0.0530	0.0365	0.3868	1.1200e-003	0.1321	8.1000e-004	0.1329	0.0350	7.5000e-004	0.0358		111.9637	111.9637	3.0000e-003		112.0388
<b>Total</b>	<b>0.0894</b>	<b>1.1390</b>	<b>0.7268</b>	<b>5.4000e-003</b>	<b>0.2524</b>	<b>3.3600e-003</b>	<b>0.2558</b>	<b>0.0697</b>	<b>3.1900e-003</b>	<b>0.0729</b>		<b>568.6639</b>	<b>568.6639</b>	<b>0.0214</b>		<b>569.1992</b>

**3.29 Reconductoring Segment Clean-up and Restoration - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3977	0.0000	0.3977	0.0429	0.0000	0.0429			0.0000			0.0000
Off-Road	0.3633	4.2576	2.3851	6.5200e-003		0.1510	0.1510		0.1389	0.1389		631.4296	631.4296	0.2042		636.5351
<b>Total</b>	<b>0.3633</b>	<b>4.2576</b>	<b>2.3851</b>	<b>6.5200e-003</b>	<b>0.3977</b>	<b>0.1510</b>	<b>0.5487</b>	<b>0.0429</b>	<b>0.1389</b>	<b>0.1818</b>		<b>631.4296</b>	<b>631.4296</b>	<b>0.2042</b>		<b>636.5351</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.29 Reconducting Segment Clean-up and Restoration - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0182	0.5513	0.1700	2.1400e-003	0.0602	1.2700e-003	0.0614	0.0173	1.2200e-003	0.0185		228.3501	228.3501	9.2000e-003		228.5802
Worker	0.0410	0.0280	0.2971	8.6000e-004	0.1004	6.2000e-004	0.1011	0.0267	5.7000e-004	0.0272		85.2966	85.2966	2.3000e-003		85.3541
<b>Total</b>	<b>0.0592</b>	<b>0.5792</b>	<b>0.4671</b>	<b>3.0000e-003</b>	<b>0.1606</b>	<b>1.8900e-003</b>	<b>0.1625</b>	<b>0.0440</b>	<b>1.7900e-003</b>	<b>0.0458</b>		<b>313.6467</b>	<b>313.6467</b>	<b>0.0115</b>		<b>313.9343</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1551	0.0000	0.1551	0.0168	0.0000	0.0168			0.0000			0.0000
Off-Road	0.3633	4.2576	2.3851	6.5200e-003		0.1510	0.1510		0.1389	0.1389	0.0000	631.4296	631.4296	0.2042		636.5351
<b>Total</b>	<b>0.3633</b>	<b>4.2576</b>	<b>2.3851</b>	<b>6.5200e-003</b>	<b>0.1551</b>	<b>0.1510</b>	<b>0.3061</b>	<b>0.0168</b>	<b>0.1389</b>	<b>0.1556</b>	<b>0.0000</b>	<b>631.4296</b>	<b>631.4296</b>	<b>0.2042</b>		<b>636.5351</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.29 Reconductoring Segment Clean-up and Restoration - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0182	0.5513	0.1700	2.1400e-003	0.0602	1.2700e-003	0.0614	0.0173	1.2200e-003	0.0185		228.3501	228.3501	9.2000e-003		228.5802
Worker	0.0410	0.0280	0.2971	8.6000e-004	0.1004	6.2000e-004	0.1011	0.0267	5.7000e-004	0.0272		85.2966	85.2966	2.3000e-003		85.3541
<b>Total</b>	<b>0.0592</b>	<b>0.5792</b>	<b>0.4671</b>	<b>3.0000e-003</b>	<b>0.1606</b>	<b>1.8900e-003</b>	<b>0.1625</b>	<b>0.0440</b>	<b>1.7900e-003</b>	<b>0.0458</b>		<b>313.6467</b>	<b>313.6467</b>	<b>0.0115</b>		<b>313.9343</b>

**3.30 70-kV Power Line Pole Tower Installation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9144	14.9150	14.1297	0.0472		0.5804	0.5804		0.5340	0.5340		4,571.4399	4,571.4399	1.4785		4,608.4023
<b>Total</b>	<b>1.9144</b>	<b>14.9150</b>	<b>14.1297</b>	<b>0.0472</b>		<b>0.5804</b>	<b>0.5804</b>		<b>0.5340</b>	<b>0.5340</b>		<b>4,571.4399</b>	<b>4,571.4399</b>	<b>1.4785</b>		<b>4,608.4023</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.30 70-kV Power Line Pole Tower Installation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0547	1.6538	0.5101	6.4200e-003	0.1805	3.8200e-003	0.1843	0.0519	3.6500e-003	0.0556		685.0502	685.0502	0.0276		685.7406
Worker	0.1043	0.0709	0.7540	2.1700e-003	0.2543	1.5800e-003	0.2558	0.0675	1.4600e-003	0.0689		216.0253	216.0253	5.8300e-003		216.1711
<b>Total</b>	<b>0.1590</b>	<b>1.7247</b>	<b>1.2641</b>	<b>8.5900e-003</b>	<b>0.4348</b>	<b>5.4000e-003</b>	<b>0.4402</b>	<b>0.1194</b>	<b>5.1100e-003</b>	<b>0.1245</b>		<b>901.0755</b>	<b>901.0755</b>	<b>0.0334</b>		<b>901.9116</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9144	14.9150	14.1297	0.0472		0.5804	0.5804		0.5340	0.5340	0.0000	4,571.4399	4,571.4399	1.4785		4,608.4023
<b>Total</b>	<b>1.9144</b>	<b>14.9150</b>	<b>14.1297</b>	<b>0.0472</b>		<b>0.5804</b>	<b>0.5804</b>		<b>0.5340</b>	<b>0.5340</b>	<b>0.0000</b>	<b>4,571.4399</b>	<b>4,571.4399</b>	<b>1.4785</b>		<b>4,608.4023</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.30 70-kV Power Line Pole Tower Installation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0547	1.6538	0.5101	6.4200e-003	0.1805	3.8200e-003	0.1843	0.0519	3.6500e-003	0.0556		685.0502	685.0502	0.0276		685.7406
Worker	0.1043	0.0709	0.7540	2.1700e-003	0.2543	1.5800e-003	0.2558	0.0675	1.4600e-003	0.0689		216.0253	216.0253	5.8300e-003		216.1711
<b>Total</b>	<b>0.1590</b>	<b>1.7247</b>	<b>1.2641</b>	<b>8.5900e-003</b>	<b>0.4348</b>	<b>5.4000e-003</b>	<b>0.4402</b>	<b>0.1194</b>	<b>5.1100e-003</b>	<b>0.1245</b>		<b>901.0755</b>	<b>901.0755</b>	<b>0.0334</b>		<b>901.9116</b>

**3.31 70-kV Substation Install Yard Rock - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7203	5.9683	6.9052	0.0184		0.2341	0.2341		0.2154	0.2154		1,781.9512	1,781.9512	0.5763		1,796.3592
<b>Total</b>	<b>0.7203</b>	<b>5.9683</b>	<b>6.9052</b>	<b>0.0184</b>		<b>0.2341</b>	<b>0.2341</b>		<b>0.2154</b>	<b>0.2154</b>		<b>1,781.9512</b>	<b>1,781.9512</b>	<b>0.5763</b>		<b>1,796.3592</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.31 70-kV Substation Install Yard Rock - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0583	1.7640	0.5441	6.8500e-003	0.1925	4.0800e-003	0.1966	0.0554	3.9000e-003	0.0593		730.7202	730.7202	0.0295		731.4566
Worker	0.0349	0.0247	0.2604	7.7000e-004	0.0913	5.5000e-004	0.0918	0.0242	5.1000e-004	0.0247		77.0193	77.0193	2.0400e-003		77.0703
<b>Total</b>	<b>0.0932</b>	<b>1.7887</b>	<b>0.8045</b>	<b>7.6200e-003</b>	<b>0.2838</b>	<b>4.6300e-003</b>	<b>0.2885</b>	<b>0.0796</b>	<b>4.4100e-003</b>	<b>0.0840</b>		<b>807.7395</b>	<b>807.7395</b>	<b>0.0315</b>		<b>808.5269</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7203	5.9683	6.9052	0.0184		0.2341	0.2341		0.2154	0.2154	0.0000	1,781.9512	1,781.9512	0.5763		1,796.3592
<b>Total</b>	<b>0.7203</b>	<b>5.9683</b>	<b>6.9052</b>	<b>0.0184</b>		<b>0.2341</b>	<b>0.2341</b>		<b>0.2154</b>	<b>0.2154</b>	<b>0.0000</b>	<b>1,781.9512</b>	<b>1,781.9512</b>	<b>0.5763</b>		<b>1,796.3592</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.31 70-kV Substation Install Yard Rock - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0583	1.7640	0.5441	6.8500e-003	0.1925	4.0800e-003	0.1966	0.0554	3.9000e-003	0.0593		730.7202	730.7202	0.0295		731.4566
Worker	0.0349	0.0247	0.2604	7.7000e-004	0.0913	5.5000e-004	0.0918	0.0242	5.1000e-004	0.0247		77.0193	77.0193	2.0400e-003		77.0703
<b>Total</b>	<b>0.0932</b>	<b>1.7887</b>	<b>0.8045</b>	<b>7.6200e-003</b>	<b>0.2838</b>	<b>4.6300e-003</b>	<b>0.2885</b>	<b>0.0796</b>	<b>4.4100e-003</b>	<b>0.0840</b>		<b>807.7395</b>	<b>807.7395</b>	<b>0.0315</b>		<b>808.5269</b>

**3.32 230-kV Substation Cleanup and Restoration - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2353	2.3090	3.1169	4.2600e-003		0.1235	0.1235		0.1137	0.1137		412.1960	412.1960	0.1333		415.5288
<b>Total</b>	<b>0.2353</b>	<b>2.3090</b>	<b>3.1169</b>	<b>4.2600e-003</b>	<b>0.0000</b>	<b>0.1235</b>	<b>0.1235</b>	<b>0.0000</b>	<b>0.1137</b>	<b>0.1137</b>		<b>412.1960</b>	<b>412.1960</b>	<b>0.1333</b>		<b>415.5288</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.32 230-kV Substation Cleanup and Restoration - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1057	3.1972	0.9862	0.0124	0.3490	7.3900e-003	0.3564	0.1004	7.0700e-003	0.1075		1,324.4304	1,324.4304	0.0534		1,325.7651
Worker	0.0196	0.0132	0.1404	4.0000e-004	0.0468	2.9000e-004	0.0471	0.0124	2.7000e-004	0.0127		39.8153	39.8153	1.0800e-003		39.8423
<b>Total</b>	<b>0.1253</b>	<b>3.2104</b>	<b>1.1265</b>	<b>0.0128</b>	<b>0.3957</b>	<b>7.6800e-003</b>	<b>0.4034</b>	<b>0.1128</b>	<b>7.3400e-003</b>	<b>0.1201</b>		<b>1,364.2457</b>	<b>1,364.2457</b>	<b>0.0545</b>		<b>1,365.6074</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2353	2.3090	3.1169	4.2600e-003		0.1235	0.1235		0.1137	0.1137	0.0000	412.1960	412.1960	0.1333		415.5288
<b>Total</b>	<b>0.2353</b>	<b>2.3090</b>	<b>3.1169</b>	<b>4.2600e-003</b>	<b>0.0000</b>	<b>0.1235</b>	<b>0.1235</b>	<b>0.0000</b>	<b>0.1137</b>	<b>0.1137</b>	<b>0.0000</b>	<b>412.1960</b>	<b>412.1960</b>	<b>0.1333</b>		<b>415.5288</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.32 230-kV Substation Cleanup and Restoration - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1057	3.1972	0.9862	0.0124	0.3490	7.3900e-003	0.3564	0.1004	7.0700e-003	0.1075		1,324.4304	1,324.4304	0.0534		1,325.7651
Worker	0.0196	0.0132	0.1404	4.0000e-004	0.0468	2.9000e-004	0.0471	0.0124	2.7000e-004	0.0127		39.8153	39.8153	1.0800e-003		39.8423
<b>Total</b>	<b>0.1253</b>	<b>3.2104</b>	<b>1.1265</b>	<b>0.0128</b>	<b>0.3957</b>	<b>7.6800e-003</b>	<b>0.4034</b>	<b>0.1128</b>	<b>7.3400e-003</b>	<b>0.1201</b>		<b>1,364.2457</b>	<b>1,364.2457</b>	<b>0.0545</b>		<b>1,365.6074</b>

**3.33 70-kV Cleanup and Restoration - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.33 70-kV Cleanup and Restoration - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0254	0.0173	0.1837	5.3000e-004	0.0619	3.9000e-004	0.0623	0.0164	3.6000e-004	0.0168		52.6270	52.6270	1.4200e-003		52.6625
<b>Total</b>	<b>0.0254</b>	<b>0.0173</b>	<b>0.1837</b>	<b>5.3000e-004</b>	<b>0.0619</b>	<b>3.9000e-004</b>	<b>0.0623</b>	<b>0.0164</b>	<b>3.6000e-004</b>	<b>0.0168</b>		<b>52.6270</b>	<b>52.6270</b>	<b>1.4200e-003</b>		<b>52.6625</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.33 70-kV Cleanup and Restoration - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0254	0.0173	0.1837	5.3000e-004	0.0619	3.9000e-004	0.0623	0.0164	3.6000e-004	0.0168		52.6270	52.6270	1.4200e-003		52.6625
<b>Total</b>	<b>0.0254</b>	<b>0.0173</b>	<b>0.1837</b>	<b>5.3000e-004</b>	<b>0.0619</b>	<b>3.9000e-004</b>	<b>0.0623</b>	<b>0.0164</b>	<b>3.6000e-004</b>	<b>0.0168</b>		<b>52.6270</b>	<b>52.6270</b>	<b>1.4200e-003</b>		<b>52.6625</b>

**3.34 70-kV Substation Testing and Commissioning - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.34 70-kV Substation Testing and Commissioning - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.2900e-003	0.2205	0.0680	8.6000e-004	0.0241	5.1000e-004	0.0246	6.9200e-003	4.9000e-004	7.4100e-003		91.3400	91.3400	3.6800e-003		91.4321
Worker	0.0312	0.0214	0.2271	6.6000e-004	0.0772	4.8000e-004	0.0776	0.0205	4.4000e-004	0.0209		65.4635	65.4635	1.7600e-003		65.5075
<b>Total</b>	<b>0.0385</b>	<b>0.2419</b>	<b>0.2951</b>	<b>1.5200e-003</b>	<b>0.1012</b>	<b>9.9000e-004</b>	<b>0.1022</b>	<b>0.0274</b>	<b>9.3000e-004</b>	<b>0.0283</b>		<b>156.8035</b>	<b>156.8035</b>	<b>5.4400e-003</b>		<b>156.9396</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.34 70-kV Substation Testing and Commissioning - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.2900e-003	0.2205	0.0680	8.6000e-004	0.0241	5.1000e-004	0.0246	6.9200e-003	4.9000e-004	7.4100e-003		91.3400	91.3400	3.6800e-003		91.4321
Worker	0.0312	0.0214	0.2271	6.6000e-004	0.0772	4.8000e-004	0.0776	0.0205	4.4000e-004	0.0209		65.4635	65.4635	1.7600e-003		65.5075
<b>Total</b>	<b>0.0385</b>	<b>0.2419</b>	<b>0.2951</b>	<b>1.5200e-003</b>	<b>0.1012</b>	<b>9.9000e-004</b>	<b>0.1022</b>	<b>0.0274</b>	<b>9.3000e-004</b>	<b>0.0283</b>		<b>156.8035</b>	<b>156.8035</b>	<b>5.4400e-003</b>		<b>156.9396</b>

**3.35 70-kV Power Line Conductor Installation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4583	21.0710	16.4869	0.0538		0.8689	0.8689		0.7994	0.7994		5,204.5755	5,204.5755	1.6833		5,246.6571
<b>Total</b>	<b>2.4583</b>	<b>21.0710</b>	<b>16.4869</b>	<b>0.0538</b>		<b>0.8689</b>	<b>0.8689</b>		<b>0.7994</b>	<b>0.7994</b>		<b>5,204.5755</b>	<b>5,204.5755</b>	<b>1.6833</b>		<b>5,246.6571</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.35 70-kV Power Line Conductor Installation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0364	1.1025	0.3401	4.2800e-003	0.1203	2.5500e-003	0.1229	0.0346	2.4400e-003	0.0371		456.7001	456.7001	0.0184		457.1604
Worker	0.0840	0.0577	0.6119	1.7700e-003	0.2084	1.2900e-003	0.2097	0.0553	1.1900e-003	0.0565		176.7562	176.7562	4.7500e-003		176.8750
<b>Total</b>	<b>0.1204</b>	<b>1.1602</b>	<b>0.9520</b>	<b>6.0500e-003</b>	<b>0.3288</b>	<b>3.8400e-003</b>	<b>0.3326</b>	<b>0.0899</b>	<b>3.6300e-003</b>	<b>0.0935</b>		<b>633.4564</b>	<b>633.4564</b>	<b>0.0232</b>		<b>634.0353</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4583	21.0710	16.4869	0.0538		0.8689	0.8689		0.7994	0.7994	0.0000	5,204.5755	5,204.5755	1.6833		5,246.6571
<b>Total</b>	<b>2.4583</b>	<b>21.0710</b>	<b>16.4869</b>	<b>0.0538</b>		<b>0.8689</b>	<b>0.8689</b>		<b>0.7994</b>	<b>0.7994</b>	<b>0.0000</b>	<b>5,204.5755</b>	<b>5,204.5755</b>	<b>1.6833</b>		<b>5,246.6571</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.35 70-kV Power Line Conductor Installation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0364	1.1025	0.3401	4.2800e-003	0.1203	2.5500e-003	0.1229	0.0346	2.4400e-003	0.0371		456.7001	456.7001	0.0184		457.1604
Worker	0.0840	0.0577	0.6119	1.7700e-003	0.2084	1.2900e-003	0.2097	0.0553	1.1900e-003	0.0565		176.7562	176.7562	4.7500e-003		176.8750
<b>Total</b>	<b>0.1204</b>	<b>1.1602</b>	<b>0.9520</b>	<b>6.0500e-003</b>	<b>0.3288</b>	<b>3.8400e-003</b>	<b>0.3326</b>	<b>0.0899</b>	<b>3.6300e-003</b>	<b>0.0935</b>		<b>633.4564</b>	<b>633.4564</b>	<b>0.0232</b>		<b>634.0353</b>

**3.35 70-kV Power Line Conductor Installation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3759	19.5109	16.2391	0.0538		0.7922	0.7922		0.7288	0.7288		5,205.8190	5,205.8190	1.6837		5,247.9107
<b>Total</b>	<b>2.3759</b>	<b>19.5109</b>	<b>16.2391</b>	<b>0.0538</b>		<b>0.7922</b>	<b>0.7922</b>		<b>0.7288</b>	<b>0.7288</b>		<b>5,205.8190</b>	<b>5,205.8190</b>	<b>1.6837</b>		<b>5,247.9107</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.35 70-kV Power Line Conductor Installation - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0348	1.0660	0.3235	4.2500e-003	0.1204	2.3600e-003	0.1227	0.0346	2.2600e-003	0.0369		454.2105	454.2105	0.0186		454.6759
Worker	0.0790	0.0520	0.5644	1.7000e-003	0.2084	1.2600e-003	0.2097	0.0553	1.1600e-003	0.0565		169.8887	169.8887	4.2600e-003		169.9953
<b>Total</b>	<b>0.1138</b>	<b>1.1180</b>	<b>0.8879</b>	<b>5.9500e-003</b>	<b>0.3288</b>	<b>3.6200e-003</b>	<b>0.3324</b>	<b>0.0899</b>	<b>3.4200e-003</b>	<b>0.0933</b>		<b>624.0992</b>	<b>624.0992</b>	<b>0.0229</b>		<b>624.6712</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3759	19.5109	16.2391	0.0538		0.7922	0.7922		0.7288	0.7288	0.0000	5,205.8190	5,205.8190	1.6837		5,247.9107
<b>Total</b>	<b>2.3759</b>	<b>19.5109</b>	<b>16.2391</b>	<b>0.0538</b>		<b>0.7922</b>	<b>0.7922</b>		<b>0.7288</b>	<b>0.7288</b>	<b>0.0000</b>	<b>5,205.8190</b>	<b>5,205.8190</b>	<b>1.6837</b>		<b>5,247.9107</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.35 70-kV Power Line Conductor Installation - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0348	1.0660	0.3235	4.2500e-003	0.1204	2.3600e-003	0.1227	0.0346	2.2600e-003	0.0369		454.2105	454.2105	0.0186		454.6759
Worker	0.0790	0.0520	0.5644	1.7000e-003	0.2084	1.2600e-003	0.2097	0.0553	1.1600e-003	0.0565		169.8887	169.8887	4.2600e-003		169.9953
<b>Total</b>	<b>0.1138</b>	<b>1.1180</b>	<b>0.8879</b>	<b>5.9500e-003</b>	<b>0.3288</b>	<b>3.6200e-003</b>	<b>0.3324</b>	<b>0.0899</b>	<b>3.4200e-003</b>	<b>0.0933</b>		<b>624.0992</b>	<b>624.0992</b>	<b>0.0229</b>		<b>624.6712</b>

**3.36 70-kV Power Line Clean-up and Restoration - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3977	0.0000	0.3977	0.0429	0.0000	0.0429			0.0000			0.0000
Off-Road	0.3379	3.8409	2.3601	6.5200e-003		0.1343	0.1343		0.1236	0.1236		631.2640	631.2640	0.2042		636.3681
<b>Total</b>	<b>0.3379</b>	<b>3.8409</b>	<b>2.3601</b>	<b>6.5200e-003</b>	<b>0.3977</b>	<b>0.1343</b>	<b>0.5320</b>	<b>0.0429</b>	<b>0.1236</b>	<b>0.1665</b>		<b>631.2640</b>	<b>631.2640</b>	<b>0.2042</b>		<b>636.3681</b>

Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.36 70-kV Power Line Clean-up and Restoration - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0244	0.7462	0.2265	2.9800e-003	0.0843	1.6500e-003	0.0859	0.0242	1.5800e-003	0.0258		317.9474	317.9474	0.0130		318.2731
Worker	0.0413	0.0276	0.2986	9.1000e-004	0.1117	6.7000e-004	0.1124	0.0296	6.1000e-004	0.0303		90.8673	90.8673	2.2700e-003		90.9239
<b>Total</b>	<b>0.0657</b>	<b>0.7737</b>	<b>0.5251</b>	<b>3.8900e-003</b>	<b>0.1960</b>	<b>2.3200e-003</b>	<b>0.1983</b>	<b>0.0539</b>	<b>2.1900e-003</b>	<b>0.0561</b>		<b>408.8146</b>	<b>408.8146</b>	<b>0.0153</b>		<b>409.1970</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1551	0.0000	0.1551	0.0168	0.0000	0.0168			0.0000			0.0000
Off-Road	0.3379	3.8409	2.3601	6.5200e-003		0.1343	0.1343		0.1236	0.1236	0.0000	631.2640	631.2640	0.2042		636.3681
<b>Total</b>	<b>0.3379</b>	<b>3.8409</b>	<b>2.3601</b>	<b>6.5200e-003</b>	<b>0.1551</b>	<b>0.1343</b>	<b>0.2894</b>	<b>0.0168</b>	<b>0.1236</b>	<b>0.1403</b>	<b>0.0000</b>	<b>631.2640</b>	<b>631.2640</b>	<b>0.2042</b>		<b>636.3681</b>



Estrella Substation and Paso Robles Area Reinforcement Project - San Luis Obispo County, Summer

**3.36 70-kV Power Line Clean-up and Restoration - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0244	0.7462	0.2265	2.9800e-003	0.0843	1.6500e-003	0.0859	0.0242	1.5800e-003	0.0258		317.9474	317.9474	0.0130		318.2731
Worker	0.0413	0.0276	0.2986	9.1000e-004	0.1117	6.7000e-004	0.1124	0.0296	6.1000e-004	0.0303		90.8673	90.8673	2.2700e-003		90.9239
<b>Total</b>	<b>0.0657</b>	<b>0.7737</b>	<b>0.5251</b>	<b>3.8900e-003</b>	<b>0.1960</b>	<b>2.3200e-003</b>	<b>0.1983</b>	<b>0.0539</b>	<b>2.1900e-003</b>	<b>0.0561</b>		<b>408.8146</b>	<b>408.8146</b>	<b>0.0153</b>		<b>409.1970</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	13.00	5.00	5.00	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.588806	0.027737	0.198305	0.114471	0.022249	0.005748	0.012759	0.019721	0.002316	0.001163	0.004776	0.000758	0.001192

5.0 Energy Detail

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.2200e-003	0.0384	0.0322	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.0532	46.0532	8.8000e-004	8.4000e-004	46.3269
NaturalGas Unmitigated	4.2200e-003	0.0384	0.0322	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.0532	46.0532	8.8000e-004	8.4000e-004	46.3269

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	391.452	4.2200e-003	0.0384	0.0322	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.0532	46.0532	8.8000e-004	8.4000e-004	46.3269
<b>Total</b>		<b>4.2200e-003</b>	<b>0.0384</b>	<b>0.0322</b>	<b>2.3000e-004</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>		<b>46.0532</b>	<b>46.0532</b>	<b>8.8000e-004</b>	<b>8.4000e-004</b>	<b>46.3269</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.391452	4.2200e-003	0.0384	0.0322	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.0532	46.0532	8.8000e-004	8.4000e-004	46.3269
<b>Total</b>		<b>4.2200e-003</b>	<b>0.0384</b>	<b>0.0322</b>	<b>2.3000e-004</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>		<b>46.0532</b>	<b>46.0532</b>	<b>8.8000e-004</b>	<b>8.4000e-004</b>	<b>46.3269</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	152.9488	6.6100e-003	0.7282	5.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003		1.5635	1.5635	4.0800e-003		1.6655
Unmitigated	152.9488	6.6100e-003	0.7282	5.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003		1.5635	1.5635	4.0800e-003		1.6655

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	152.8816					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0672	6.6100e-003	0.7282	5.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003		1.5635	1.5635	4.0800e-003		1.6655
<b>Total</b>	<b>152.9488</b>	<b>6.6100e-003</b>	<b>0.7282</b>	<b>5.0000e-005</b>		<b>2.5900e-003</b>	<b>2.5900e-003</b>		<b>2.5900e-003</b>	<b>2.5900e-003</b>		<b>1.5635</b>	<b>1.5635</b>	<b>4.0800e-003</b>		<b>1.6655</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	152.8816					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0672	6.6100e-003	0.7282	5.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003		1.5635	1.5635	4.0800e-003		1.6655
<b>Total</b>	<b>152.9488</b>	<b>6.6100e-003</b>	<b>0.7282</b>	<b>5.0000e-005</b>		<b>2.5900e-003</b>	<b>2.5900e-003</b>		<b>2.5900e-003</b>	<b>2.5900e-003</b>		<b>1.5635</b>	<b>1.5635</b>	<b>4.0800e-003</b>		<b>1.6655</b>

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**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Trucks	1	4.00	13	402	0.38	Diesel
Off-Highway Trucks	1	4.00	12	402	0.38	Diesel
Other General Industrial Equipment	1	8.00	2	400	0.34	Diesel

**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Off-Highway Trucks	0.4970	3.3279	3.2502	0.0132		0.1198	0.1198		0.1102	0.1102		1,280.3504	1,280.3504	0.4141		1,290.7027
Other General Industrial Equipment	0.3779	2.7653	2.6630	0.0117		0.0948	0.0948		0.0872	0.0872		1,134.3814	1,134.3814	0.3669		1,143.5535
<b>Total</b>	<b>0.8750</b>	<b>6.0932</b>	<b>5.9132</b>	<b>0.0250</b>		<b>0.2146</b>	<b>0.2146</b>		<b>0.1974</b>	<b>0.1974</b>		<b>2,414.7318</b>	<b>2,414.7318</b>	<b>0.7810</b>		<b>2,434.2562</b>

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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## **APPENDIX B – Project Emission Rates**



## Acute NO<sub>2</sub> Emission Rates

### 2022 NO<sub>x</sub> - Monthly Emissions - One-Hour NO<sub>2</sub><sup>1</sup>

Construction Year	Month	Estrella Substation	Reconductoring Segment	70 kV Line
		NOx (lb/hr) <sup>2</sup>	NOx (lb/hr) <sup>2</sup>	NOx (lb/hr) <sup>2</sup>
2022	1	0.000	0.000	0.000
2022	2	0.000	0.000	0.000
2022	3	0.000	0.000	0.000
2022	4	0.000	0.000	0.000
2022	5	0.000	0.000	0.000
2022	6	1.552	0.000	0.000
2022	7	1.551	0.487	0.000
2022	8	1.570	1.629	0.000
2022	9	5.706	1.629	0.000
2022	10	5.771	3.757	0.000
2022	11	2.005	3.757	0.000
2022	12	2.864	3.757	0.000

### 2023 NO<sub>x</sub> - Monthly Emissions - One-Hour NO<sub>2</sub><sup>1</sup>

Construction Year	Month	Estrella Substation	Reconductoring Segment	70 kV Line
		NOx (lb/hr) <sup>2</sup>	NOx (lb/hr) <sup>2</sup>	NOx (lb/hr) <sup>2</sup>
2023	1	3.701	3.361	0.000
2023	2	1.122	3.361	0.000
2023	3	0.800	0.418	2.306
2023	4	0.000	0.000	1.510
2023	5	0.000	0.000	1.510
2023	6	0.000	0.000	1.510
2023	7	0.000	0.000	1.510
2023	8	0.000	0.000	1.510
2023	9	0.000	0.000	1.510
2023	10	0.000	0.000	1.510
2023	11	0.000	0.000	3.577
2023	12	0.000	0.000	2.067

## Acute NO<sub>2</sub> Emission Rates

### 2024 NO<sub>x</sub> - Monthly Emissions - One-Hour NO<sub>2</sub><sup>1</sup>

Construction Year	Month	Estrella Substation	Reconductoring Segment	70 kV Line
		NOx (lb/hr) <sup>2</sup>	NOx (lb/hr) <sup>2</sup>	NOx (lb/hr) <sup>2</sup>
2024	1	0.000	0.000	1.916
2024	2	0.000	0.000	0.405
2024	3	0.000	0.000	0.000
2024	4	0.000	0.000	0.000
2024	5	0.000	0.000	0.000
2024	6	0.000	0.000	0.000
2024	7	0.000	0.000	0.000
2024	8	0.000	0.000	0.000
2024	9	0.000	0.000	0.000
2024	10	0.000	0.000	0.000
2024	11	0.000	0.000	0.000
2024	12	0.000	0.000	0.000

<sup>1</sup> Emissions from CalEEMod were post-processed to scale off-road emissions by length of one-way trip compared with 1,000 feet of access road to the Estrella Substation (to approximate the degree of impact to receptors within 1,000 feet of the Project Area), or the length of the Reconductoring or 70 kV line (to approximate the degree of impact to receptors along these routes). The Emissions from CalEEMod are presented in terms of maximum lb/day, however, based on the breakdown of emissions by Phase in the CalEEMod Report, the emissions were allocated to the appropriate time period, then divided by the number of work hours per day to get maximum lb/day during each month and phase.

<sup>2</sup> The maximum hourly rate was assumed to occur for the entire month of construction from 7:30 am to 6:00 pm, Monday through Saturday.

## Acute DPM Emission Rates

### 2022 DPM - Monthly Emissions - Acute DPM <sup>1</sup>

Construction Year	Month	Estrella Substation	Reconductoring Segment	70 kV Line
		DPM (lb/hr) <sup>2</sup>	DPM (lb/hr) <sup>2</sup>	DPM (lb/hr) <sup>2</sup>
2022	1	0.000	0.000	0.000
2022	2	0.000	0.000	0.000
2022	3	0.000	0.000	0.000
2022	4	0.000	0.000	0.000
2022	5	0.000	0.000	0.000
2022	6	0.063	0.000	0.000
2022	7	0.063	0.016	0.000
2022	8	0.063	0.062	0.000
2022	9	0.222	0.062	0.000
2022	10	0.224	0.146	0.000
2022	11	0.107	0.146	0.000
2022	12	0.101	0.146	0.000

### 2023 DPM - Monthly Emissions - Acute DPM <sup>1</sup>

Construction Year	Month	Estrella Substation	Reconductoring Segment	70 kV Line
		DPM (lb/hr) <sup>2</sup>	DPM (lb/hr) <sup>2</sup>	DPM (lb/hr) <sup>2</sup>
2023	1	1.37E-01	1.30E-01	0.00E+00
2023	2	3.71E-02	1.30E-01	0.00E+00
2023	3	3.41E-02	1.44E-02	8.09E-02
2023	4	1.75E-06	0.00E+00	5.56E-02
2023	5	1.75E-06	0.00E+00	5.56E-02
2023	6	0.00E+00	0.00E+00	5.56E-02
2023	7	0.00E+00	0.00E+00	5.56E-02
2023	8	0.00E+00	0.00E+00	5.56E-02
2023	9	0.00E+00	0.00E+00	5.56E-02
2023	10	0.00E+00	0.00E+00	5.56E-02
2023	11	0.00E+00	0.00E+00	1.39E-01
2023	12	0.00E+00	0.00E+00	8.30E-02

## Acute DPM Emission Rates

### 2024 DPM - Monthly Emissions - Acute DPM <sup>1</sup>

Construction Year	Month	Estrella Substation	Reconductoring Segment	70 kV Line
		DPM (lb/hr) <sup>2</sup>	DPM (lb/hr) <sup>2</sup>	DPM (lb/hr) <sup>2</sup>
2024	1	0.00E+00	0.00E+00	7.57E-02
2024	2	0.00E+00	0.00E+00	1.29E-02
2024	3	0.00E+00	0.00E+00	0.00E+00
2024	4	0.00E+00	0.00E+00	0.00E+00
2024	5	0.00E+00	0.00E+00	0.00E+00
2024	6	0.00E+00	0.00E+00	0.00E+00
2024	7	0.00E+00	0.00E+00	0.00E+00
2024	8	0.00E+00	0.00E+00	0.00E+00
2024	9	0.00E+00	0.00E+00	0.00E+00
2024	10	0.00E+00	0.00E+00	0.00E+00
2024	11	0.00E+00	0.00E+00	0.00E+00
2024	12	0.00E+00	0.00E+00	0.00E+00

<sup>1</sup> Emissions from CalEEMod were post-processed to scale off-road emissions by length of one-way trip compared with 1,000 feet of access road to the Estrella Substation (to approximate the degree of impact to receptors within 1,000 feet of the Project Area), or the length of the Reconductoring or 70 kV line (to approximate the degree of impact to receptors along these routes). The Emissions from CalEEMod are presented in terms of maximum lb/day, however, based on the breakdown of emissions by Phase in the CalEEMod Report, the emissions were allocated to the appropriate time period, then divided by the number of work hours per day to get maximum lb/day during each month and phase.

<sup>2</sup> The maximum hourly rate was assumed to occur for the entire month of construction from 7:30 am to 6:00 pm, Monday through Saturday.

## Chronic Exposure DPM Emission Rates

### 2022 DPM - Monthly Emissions - for Cancer Risks and Chronic DPM Exposure <sup>1</sup>

Construction Year	Month	Estrella Substation	Reconductoring Segment	70 kV Line	Estrella Substation	Reconductoring Segment	70 kV Line
		DPM (lb/month)	DPM (lb/month)	DPM (lb/month)	DPM (lb/hr) <sup>2</sup>	DPM (lb/hr) <sup>2</sup>	DPM (lb/hr) <sup>2</sup>
2022	1	0.000	0.000	0.000	0.000	0.000	0.000
2022	2	0.000	0.000	0.000	0.000	0.000	0.000
2022	3	0.000	0.000	0.000	0.000	0.000	0.000
2022	4	0.000	0.000	0.000	0.000	0.000	0.000
2022	5	0.000	0.000	0.000	0.000	0.000	0.000
2022	6	14.325	0.000	0.000	0.052	0.000	0.000
2022	7	16.003	1.027	0.000	0.059	0.004	0.000
2022	8	6.833	16.678	0.000	0.025	0.061	0.000
2022	9	44.693	15.651	0.000	0.164	0.057	0.000
2022	10	23.700	36.758	0.000	0.087	0.135	0.000
2022	11	29.213	45.947	0.000	0.107	0.168	0.000
2022	12	22.137	35.391	0.000	0.081	0.130	0.000

### 2023 DPM - Monthly Emissions - for Cancer Risks and Chronic DPM Exposure <sup>1</sup>

Construction Year	Month	Estrella Substation	Reconductoring Segment	70 kV Line	Estrella Substation	Reconductoring Segment	70 kV Line
		DPM (lb/month)	DPM (lb/month)	DPM (lb/month)	DPM (lb/hr) <sup>2</sup>	DPM (lb/hr) <sup>2</sup>	DPM (lb/hr) <sup>2</sup>
2023	1	24.865	31.289	0.000	0.091	0.115	0.000
2023	2	3.575	24.189	0.000	0.013	0.089	0.000
2023	3	5.024	1.825	20.848	0.018	0.007	0.076
2023	4	0.000	0.000	14.133	0.000	0.000	0.052
2023	5	0.000	0.000	17.667	0.000	0.000	0.065
2023	6	0.000	0.000	14.133	0.000	0.000	0.052
2023	7	0.000	0.000	14.133	0.000	0.000	0.052
2023	8	0.000	0.000	17.667	0.000	0.000	0.065
2023	9	0.000	0.000	14.133	0.000	0.000	0.052
2023	10	0.000	0.000	14.133	0.000	0.000	0.052
2023	11	0.000	0.000	42.459	0.000	0.000	0.156
2023	12	0.000	0.000	21.288	0.000	0.000	0.078

### 2024 DPM - Monthly Emissions - for Cancer Risks and Chronic DPM Exposure <sup>1</sup>

Construction Year	Month	Estrella Substation	Reconductoring Segment	70 kV Line	Estrella Substation	Reconductoring Segment	70 kV Line
		DPM (lb/month)	DPM (lb/month)	DPM (lb/month)	DPM (lb/hr) <sup>2</sup>	DPM (lb/hr) <sup>2</sup>	DPM (lb/hr) <sup>2</sup>
2024	1	0.000	0.000	17.986	0.000	0.000	0.066
2024	2	0.000	0.000	0.815	0.000	0.000	0.003
2024	3	0.000	0.000	0.000	0.000	0.000	0.000
2024	4	0.000	0.000	0.000	0.000	0.000	0.000
2024	5	0.000	0.000	0.000	0.000	0.000	0.000
2024	6	0.000	0.000	0.000	0.000	0.000	0.000
2024	7	0.000	0.000	0.000	0.000	0.000	0.000
2024	8	0.000	0.000	0.000	0.000	0.000	0.000
2024	9	0.000	0.000	0.000	0.000	0.000	0.000
2024	10	0.000	0.000	0.000	0.000	0.000	0.000
2024	11	0.000	0.000	0.000	0.000	0.000	0.000
2024	12	0.000	0.000	0.000	0.000	0.000	0.000

<sup>1</sup> Emissions from CalEEMod were post-processed to scale off-road emissions by length of one-way trip compared with 1,000 feet of access road to the Estrella Substation (to approximate the degree of impact to receptors within 1,000 feet of the Project Area), or the length of the Reconductoring or 70 kV line (to approximate the degree of impact to receptors along these routes). The Emissions from CalEEMod are presented in terms of ton per year, however, based on the breakdown of emissions by Phase in the CalEEMod Report, the emissions were allocated to the appropriate time period. Hours per month is derived from an assumption of 10.5 hours per day, 6 days per week, and 52 weeks per year, divided by 12 to get monthly hours.

<sup>2</sup> The modeled hourly rate was assumed to occur for the entire month of construction from 7:30 am to 6:00 pm, Monday through Saturday.





## **APPENDIX C – Detailed Modeling Results**



**Acute Non-Cancer Risk (1-Hour Exposure to Oxides of Nitrogen (NOx))**

**Modeling Data**

Construction Year	Project Component	GLC <sub>max</sub>	UTM Coordinates		GLC <sub>max</sub> at closest discrete receptor <sup>1</sup>	UTM Coordinates		Background <sup>1</sup>	Total MEIR concentration
		ug/m3	X	Y	ug/m3	X	Y	ug/m3	ug/m3
2022	Substation	339.40865	717399.8	3946498.61	139.56029	717225.77	3946014.01	65.8	205.36
2023	Substation	255.78905	717211.03	3946241.23	141.20463	717225.77	3946014.01	65.8	207.00
2024	Substation	43.46075	716896.71	3945946.17	9.29767	717225.77	3946014.01	65.8	75.10
2022	Reconductoring	137.85836	710111.33	3943931.82	119.51408	709758.62	3947446.58	65.8	185.31
2023	Reconductoring	135.22938	709849.98	3947113.3	114.02744	709758.62	3947446.58	65.8	179.83
2024	Reconductoring	14.67384	709701.08	3947850.93	5.56144	709758.62	3947446.58	65.8	71.36
2022	70 kV Line	132.39945	717424.78	3947041.51	94.11099	716352.2	3945869.93	65.8	159.91
2023	70 kV Line	132.56957	716594.88	3946147.57	105.03952	717152.5	3947164.96	65.8	170.84
2024	70 kV Line	79.65157	714614.48	3946293.98	51.10434	714423.44	3946298.36	65.8	116.90

<sup>1</sup> Background Concentrations from AQS ID 60798002.

Construction Year	GLC <sub>max</sub> Project	CAAQS Compliance		Potential onsite worker exposure (with background)	OSHA PEL Compliance	
	ppm <sup>1</sup>	CAAQS	Project Impacts Exceed CAAQS <sup>2</sup>	ppm <sup>1</sup>	PEL (8-hr) (ppm)	Potentially Exceeds PEL
2022	0.18	0.18	No	0.22	5	No
2023	0.14	0.18	No	0.18	5	No
2024	0.04	0.18	No	0.08	5	No

<sup>1</sup> Values from the modeling were converted to ppm and rounded to the "Given Number of Decimal Places" in Table D-1 - Level and Precision of State Standards in CARB's "Convention for Rounding Ambient Air Quality Data"

<sup>2</sup> The one hour NO<sub>2</sub> CAAQS standard is "not to be exceeded" outside of work areas. See footnote 1 of the California Air Quality Standards here: <https://ww2.arb.ca.gov/sites/default/files/2020-07/aaqs2.pdf>

**Chronic Non-Cancer Risk (Chronic Exposure to Diesel Particulate Matter (DPM))**

**Modeling Data**

Construction Year	Project Component	GLC <sub>max</sub>	UTM Coordinates		GLC <sub>max</sub> at closest discrete receptor <sup>1</sup>	UTM Coordinates		Chronic Exposure Threshold DPM	Background	Total MEIR concentration	HI (w/ background)
		ug/m3	X	Y	ug/m3	X	Y		ug/m3	ug/m3	
2022	Substation	0.11415	717441.61	3946332.46	0.00563	717225.77	3946014.01	5	0.456	0.462	0.09
2023	Substation	0.04334	717211.84	3946294.81	0.00337	717225.77	3946014.01	5	0.456	0.459	0.09
2024	Substation	0.00248	712965.42	3946729.36	0.0002	717225.77	3946014.01	5	0.456	0.456	0.09
2022	Reconductoring	0.03263	709849.98	3947113.3	0.03059	709758.62	3947446.58	5	0.456	0.487	0.10
2023	Reconductoring	0.0119	712034.61	3948424.19	0.01111	709758.62	3947446.58	5	0.456	0.467	0.09
2024	Reconductoring	0.00024	717210.01	3946066.57	0.00012	716948.79	3945629.84	5	0.456	0.456	0.09
2022	70 kV Line	0.02068	709453.28	3947981.26	0.00149	717152.5	3947164.96	5	0.456	0.457	0.09
2023	70 kV Line	0.01911	712404.82	3947517.74	0.01874	714423.44	3946298.36	5	0.456	0.475	0.09
2024	70 kV Line	0.0029	709780.65	3948655.24	0.00264	714423.44	3946298.36	5	0.456	0.459	0.09

<sup>1</sup> Background Concentrations derived from AQS ID 60798002.

**Acute Non-Cancer Risk (1-Hour Exposure to Diesel Particulate Matter (DPM))**

**Modeling Data**

Construction Year	Project Component	GLC <sub>max</sub>	UTM Coordinates		GLC <sub>max</sub> at closest discrete receptor <sup>1</sup>	UTM Coordinates		Acute Exposure Threshold DPM	Background	Total MEIR concentration	HI (w/ background)
		ug/m3	X	Y	ug/m3	X	Y		ug/m3	ug/m3	
2022	Substation	26.29503	717399.8	3946498.61	8.64306	717225.77	3946014.01	19	1.872	10.52	0.55
2023	Substation	19.00374	717211.03	3946241.23	10.02367	717225.77	3946014.01	19	1.872	11.90	0.63
2024	Substation	1.90689	716896.71	3945946.17	0.40795	717225.77	3946014.01	19	1.872	2.28	0.12
2022	Reconductoring	8.83752	710111.33	3943931.82	5.8191	709758.62	3947446.58	19	1.872	7.69	0.40
2023	Reconductoring	8.04745	709849.98	3947113.3	5.25837	709758.62	3947446.58	19	1.872	7.13	0.38
2024	Reconductoring	0.64383	709701.08	3947850.93	0.24401	709758.62	3947446.58	19	1.872	2.12	0.11
2022	70 kV Line	7.50799	717424.78	3947041.51	4.05059	716352.2	3945869.93	19	1.872	5.92	0.31
2023	70 kV Line	7.23004	716594.88	3946147.57	4.39017	717152.5	3947164.96	19	1.872	6.26	0.33
2024	70 kV Line	3.49481	714614.48	3946293.98	2.24227	714423.44	3946298.36	19	1.872	4.11	0.22

<sup>1</sup> Background Concentrations derived from AQS ID 60798002.



## **APPENDIX D – Detailed Risk Calculations**





## Cancer Risk Summary

### Risk Calculation Assumptions

OEHHA 2015 - Equation 5.4.1.1:  $\text{Dose-air} = \text{Cair} \times (\text{BR}/\text{BW}) \times \text{A} \times \text{EF} \times 10^{-6}$

Dose Exposure Factors:	Variable Description	3rd Trimester	0 < 2 years	2<9 years	2<16	16<30	16<70	Units	Reference
Cair	concentration of contaminant in air	See below per receptor	See below per receptor	See below per receptor	See below per receptor	See below per receptor	See below per receptor	µg/m <sup>3</sup>	
	Exposure frequency (days/year)	350	350	350	350	350	350	days/year	OEHHA 2015 - 5.4.1.1 A(a) Recommended default values for EQ 5.4.1.1
EF -	Exposure frequency (# days/365 days)	0.96	0.96	0.96	0.96	0.96	0.96	-	OEHHA 2015 - 5.4.1.1 A(a) Recommended default values for EQ 5.4.1.1
BR/BW	daily breathing rate normalized to body weight	361	1090	861	745	335	290	L/kg-day	OEHHA 2015 - Table 5.6 Point Estimates of Residential Daily Breathing Rates for 3rd trimester, 0<2, 2<9, 9<16, 16<30, and 16<70
A	inhalation absorption factor	1	1	1	1	1	1	-	OEHHA 2015 - 5.4.1.1 A(a) Recommended default values for EQ 5.4.1.1
CF	conversion factor	1.0E-06	1.0E-06	1.0E-06	1.0E-06	1.0E-06	1.0E-06	µg to mg	

OEHHA 2015 - Equation 8.2.4 A:  $\text{RISKinh-res} = \text{DOSEair} \times \text{CPF} \times \text{ASF} \times \text{ED}/\text{AT} \times \text{FAH}$

Cancer Risk Factors	Variable Description	3rd Trimester	0 < 2 years	2<9 years	9<16	16<30	16<70	Units	Reference
FAH	Fraction of time at home, per age group	0.85	0.85	0.72	0.72	0.73	0.73	-	OEHHA 2015 - Table 8.4
ED	Exposure Duration	0.25	2.75	3	3	3	3	years	Based on project duration, however, see Note 1 <sup>1</sup>
ASF	age sensitivity factor, per age group	10	10	3	3	1	1	-	OEHHA 2015 - Table 8.3
AT	averaging time period over which exposure duration is averaged	70	70	70	70	70	70	years	OEHHA 2015- 8.2.4(A)(a): Recommended default values for EQ 8.2.4 A
CPF	Cancer potency factor	1.10E+00	1.10E+00	1.10E+00	1.10E+00	1.10E+00	1.10E+00	(mg/kg/day) <sup>-1</sup>	<a href="https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable.pdf">https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable.pdf</a>
per million		1.0E+06	1.0E+06	1.0E+06	1.0E+06	1.0E+06	1.0E+06		

<sup>1</sup>Note that because AERMOD concentrations are already based on annual average concentration with consideration of construction schedule (including specific emission rates per hour of construction which are based on month-specific emission rates from each project component) it is assumed that the exposure occurs for the entire calendar year per age group, with the exception of exposures starting in the third trimester. For exposures starting in the third trimester, exposure is assumed to be 0.25 years in the third trimester, and 0.75 years from age 0-2 for the first calendar year of the project. Subsequent exposure duration for each calendar year are assumed to be 1 full year.

### Summarized Receptors and Modeled Ambient Concentrations

Receptor Description		UTM Coordinates		Cair (µg/m <sup>3</sup> )		
Project Component	Description	X	Y	2022	2023	2024
Reconductoring	Residence approximately 65 feet east of Reconductoring segment	709758.62	3947446.58	0.03059	0.01111	0.00012
Reconductoring	Residence approximately 21 feet east of Reconductoring segment	709717.98	3947567.04	0.0266	0.00998	0.00012
Reconductoring	Residence approximately 32 feet east of Reconductoring segment	709753.71	3947473.65	0.02639	0.00986	0.00012
70 kV Line	Residence approximately 34 feet north of 70 kV Line	714423.44	3946298.36	0.00044	0.01874	0.00264
70 kV Line	Residence approximately 35 feet north of 70 kV Line	714448.56	3946297.2	0.00044	0.01721	0.00238
70 kV Line	Residence approximately 55 feet north of 70 kV Line	714538.51	3946293.7	0.00046	0.01468	0.00187
Substation	Building approximately 221 feet southwest of Estrella Substation	717225.77	3946014.01	0.00563	0.00337	0.0002
Substation	Building approximately 1080 feet southeast of Estrella Substation	717727.72	3946145.41	0.00408	0.00111	0.00001
Substation	Building approximately 1170 feet south of Estrella Substation	717333.91	3945715.17	0.002	0.00104	0.00011

## Cancer Risk Summary

### Summarized Cancer Risks

Project Component	Maximum Exposed Receptor Age Group	UTM Coordinates		Construction 2022* (only used for third trimester exposure)	Exposure			Total Excess Cancer Risk (cases per million)
		X	Y		Construction 2022	Construction 2023	Construction 2024	
Reconductoring	Third Trimester Exposure to 0<2	709758.62	3947446.58	0.35	3.20	1.55	0.02	5.12
Reconductoring		709717.98	3947567.04	0.31	2.79	1.39	0.02	4.50
Reconductoring		709753.71	3947473.65	0.31	2.76	1.38	0.02	4.46
70 kV Line		714423.44	3946298.36	0.01	0.05	2.62	0.37	3.04
70 kV Line		714448.56	3946297.2	0.01	0.05	2.40	0.33	2.79
70 kV Line		714538.51	3946293.7	0.01	0.05	2.05	0.26	2.36
Substation		717225.77	3946014.01	0.07	0.59	0.47	0.03	1.15
Substation		717727.72	3946145.41	0.05	0.43	0.15	0.00	0.63
Substation		717333.91	3945715.17	0.02	0.21	0.15	0.02	0.39
Reconductoring	2<9 Exposure	709758.62	3947446.58	0.00	0.86	0.31	0.00	1.17
Reconductoring		709717.98	3947567.04	0.00	0.75	0.28	0.00	1.03
Reconductoring		709753.71	3947473.65	0.00	0.74	0.28	0.00	1.02
70 kV Line		714423.44	3946298.36	0.00	0.01	0.53	0.07	0.61
70 kV Line		714448.56	3946297.2	0.00	0.01	0.48	0.07	0.56
70 kV Line		714538.51	3946293.7	0.00	0.01	0.41	0.05	0.48
Substation		717225.77	3946014.01	0.00	0.16	0.09	0.01	0.26
Substation		717727.72	3946145.41	0.00	0.11	0.03	0.00	0.15
Substation		717333.91	3945715.17	0.00	0.06	0.03	0.00	0.09
Reconductoring	2<16 Exposure	709758.62	3947446.58	0.00	0.74	0.27	0.00	1.01
Reconductoring		709717.98	3947567.04	0.00	0.65	0.24	0.00	0.89
Reconductoring		709753.71	3947473.65	0.00	0.64	0.24	0.00	0.88
70 kV Line		714423.44	3946298.36	0.00	0.01	0.45	0.06	0.53
70 kV Line		714448.56	3946297.2	0.00	0.01	0.42	0.06	0.49
70 kV Line		714538.51	3946293.7	0.00	0.01	0.36	0.05	0.41
Substation		717225.77	3946014.01	0.00	0.14	0.08	0.00	0.22
Substation		717727.72	3946145.41	0.00	0.10	0.03	0.00	0.13
Substation		717333.91	3945715.17	0.00	0.05	0.03	0.00	0.08
Reconductoring	16<30 Exposure	709758.62	3947446.58	0.00	0.11	0.04	0.00	0.15
Reconductoring		709717.98	3947567.04	0.00	0.10	0.04	0.00	0.14
Reconductoring		709753.71	3947473.65	0.00	0.10	0.04	0.00	0.13
70 kV Line		714423.44	3946298.36	0.00	0.00	0.07	0.01	0.08
70 kV Line		714448.56	3946297.2	0.00	0.00	0.06	0.01	0.07
70 kV Line		714538.51	3946293.7	0.00	0.00	0.05	0.01	0.06
Substation		717225.77	3946014.01	0.00	0.02	0.01	0.00	0.03
Substation		717727.72	3946145.41	0.00	0.02	0.00	0.00	0.02
Substation		717333.91	3945715.17	0.00	0.01	0.00	0.00	0.01
Reconductoring	16<70 Exposure	709758.62	3947446.58	0.00	0.10	0.04	0.00	0.13
Reconductoring		709717.98	3947567.04	0.00	0.08	0.03	0.00	0.12
Reconductoring		709753.71	3947473.65	0.00	0.08	0.03	0.00	0.12
70 kV Line		714423.44	3946298.36	0.00	0.00	0.06	0.01	0.07
70 kV Line		714448.56	3946297.2	0.00	0.00	0.05	0.01	0.06
70 kV Line		714538.51	3946293.7	0.00	0.00	0.05	0.01	0.05
Substation		717225.77	3946014.01	0.00	0.02	0.01	0.00	0.03
Substation		717727.72	3946145.41	0.00	0.01	0.00	0.00	0.02
Substation		717333.91	3945715.17	0.00	0.01	0.00	0.00	0.01